

Bi-Annual Operations and Maintenance Assessment Report

Groundwater Remediation System Former AT&T Richmond Works Facility

February 2011 to February 2013

Volume II – Appendix C

Prepared for:

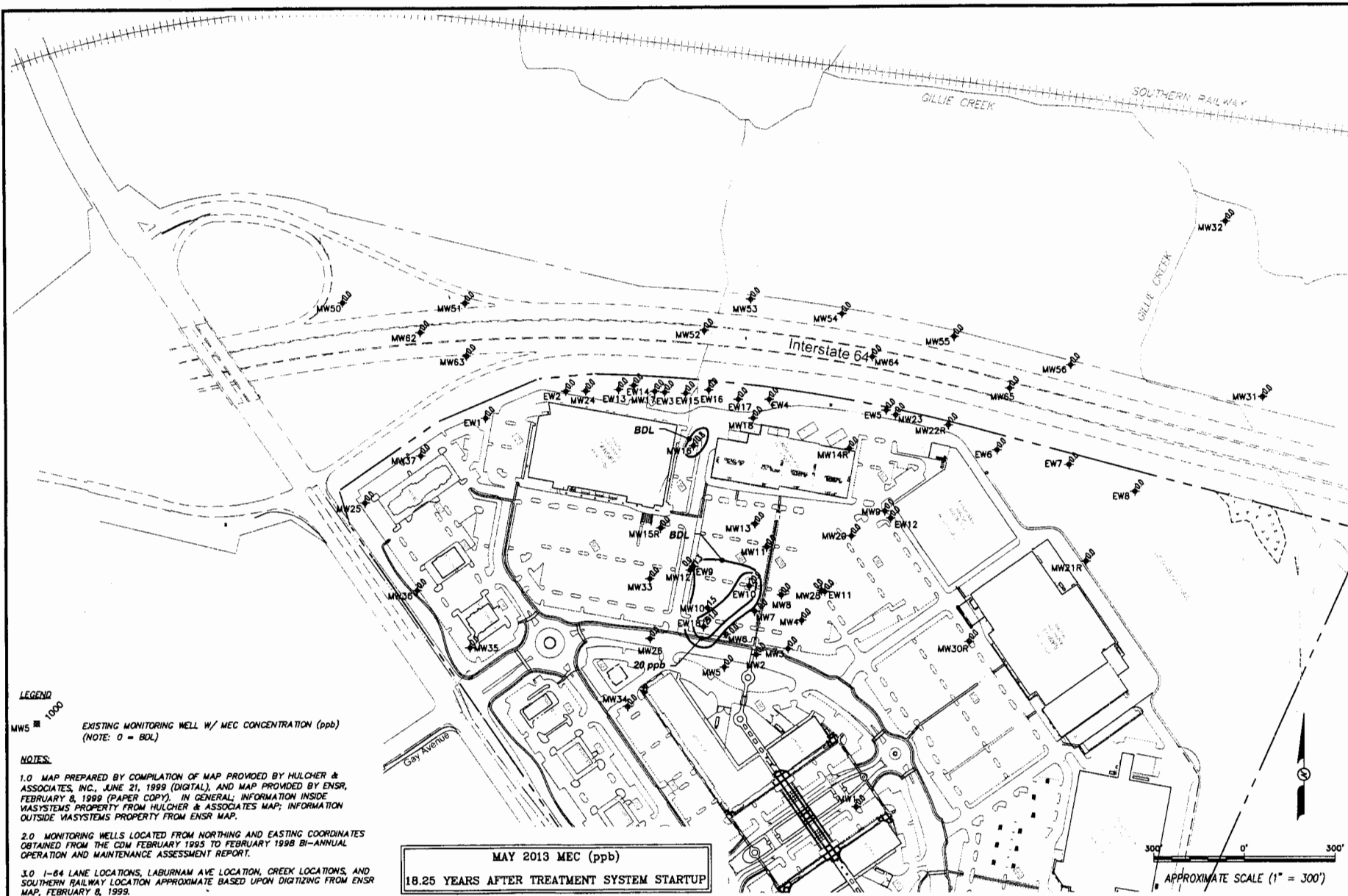
LSI Corporation
1110 American Parkway NE
Room 12K-305
Allentown, PA 18109

Prepared by:

AECOM
4840 Cox Road
Glen Allen, VA 23060

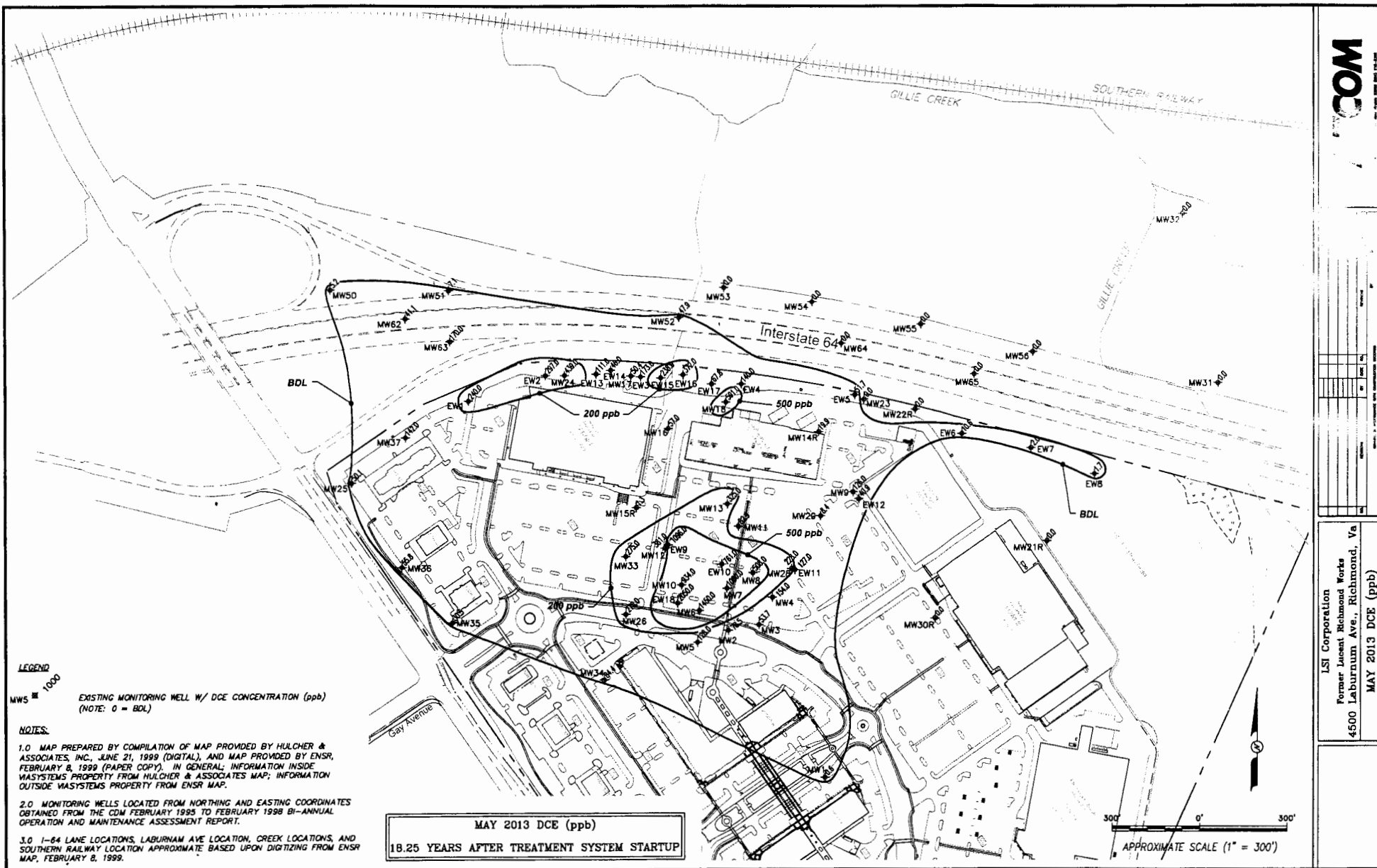
August 2013

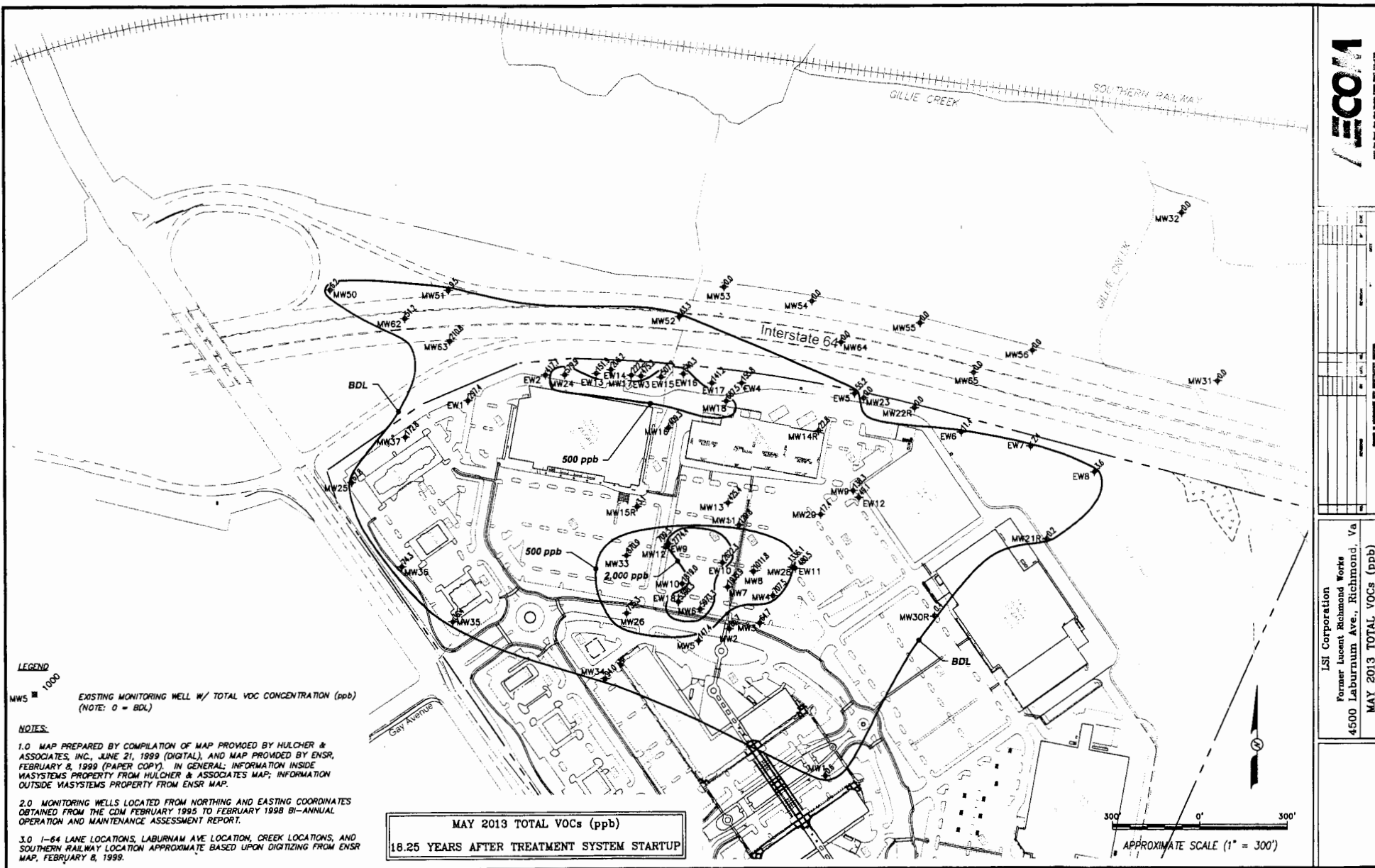
AECOM Project No. 60161273



NO.	DATE	DESCRIPTION	BY	CHKD
1	05/15/13	ISSUED FOR REVIEW	J. H. HARRIS	
2	05/15/13	REVIEWED	J. H. HARRIS	
3	05/15/13	APPROVED	J. H. HARRIS	

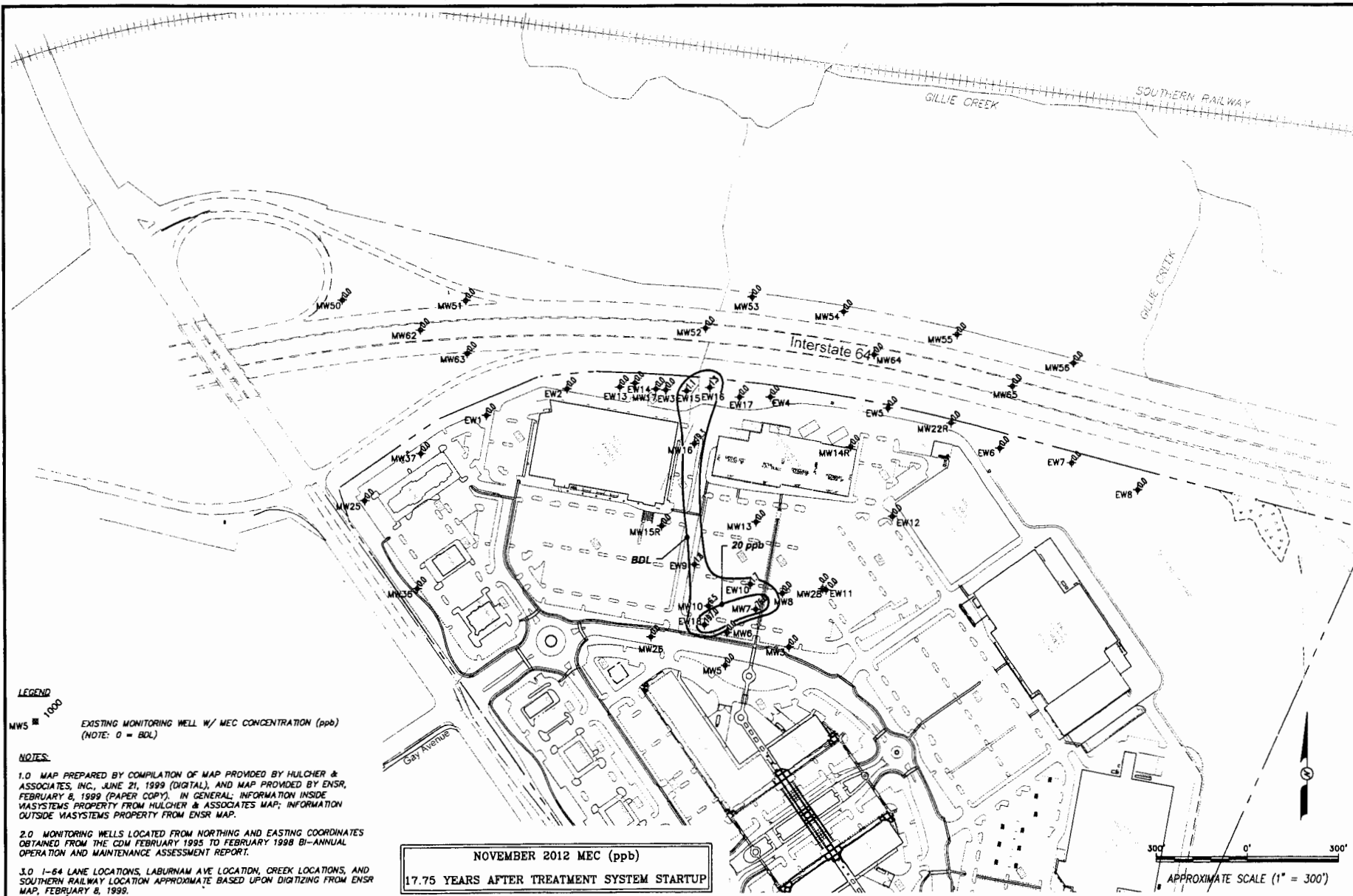
LSI Corporation
Former Lucant Richmond Works
4500 Laburnum Ave., Richmond, Va
MAY 2013 MEC (ppb)





NO.	DATE	DESCRIPTION	BY	CHKD
1	06/21/99	Map of monitoring wells	ES&S	
2	02/08/99	Map of monitoring wells	ES&S	
3	02/08/99	Map of monitoring wells	ES&S	
4	02/08/99	Map of monitoring wells	ES&S	
5	02/08/99	Map of monitoring wells	ES&S	
6	02/08/99	Map of monitoring wells	ES&S	
7	02/08/99	Map of monitoring wells	ES&S	
8	02/08/99	Map of monitoring wells	ES&S	
9	02/08/99	Map of monitoring wells	ES&S	
10	02/08/99	Map of monitoring wells	ES&S	

LSI Corporation
Former Lucent Richmond Works
4500 Laburnum Ave., Richmond, Va
MAY 2013 TOTAL VOCs (ppb)

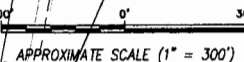


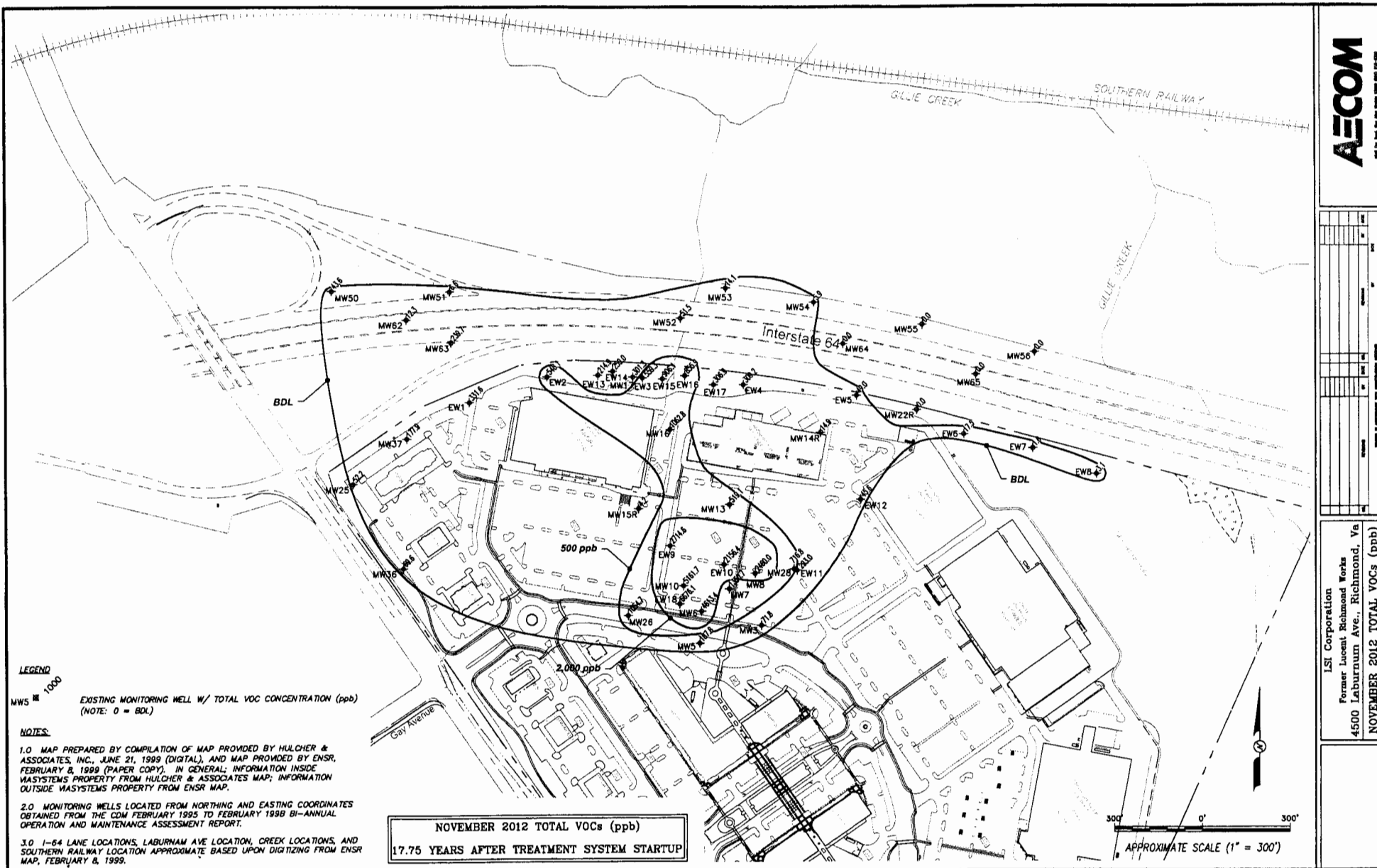
NO.	DESCRIPTION	DATE	BY	CHKD
1	ISSUED FOR CONSTRUCTION	11/15/12	J. H. HARRIS	
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3	REVISION			
4	REVISION			
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LSI Corporation
Former Lacent Richmond Works
4500 Laburnum Ave., Richmond, Va
NOVEMBER 2012 MEC (ppb)

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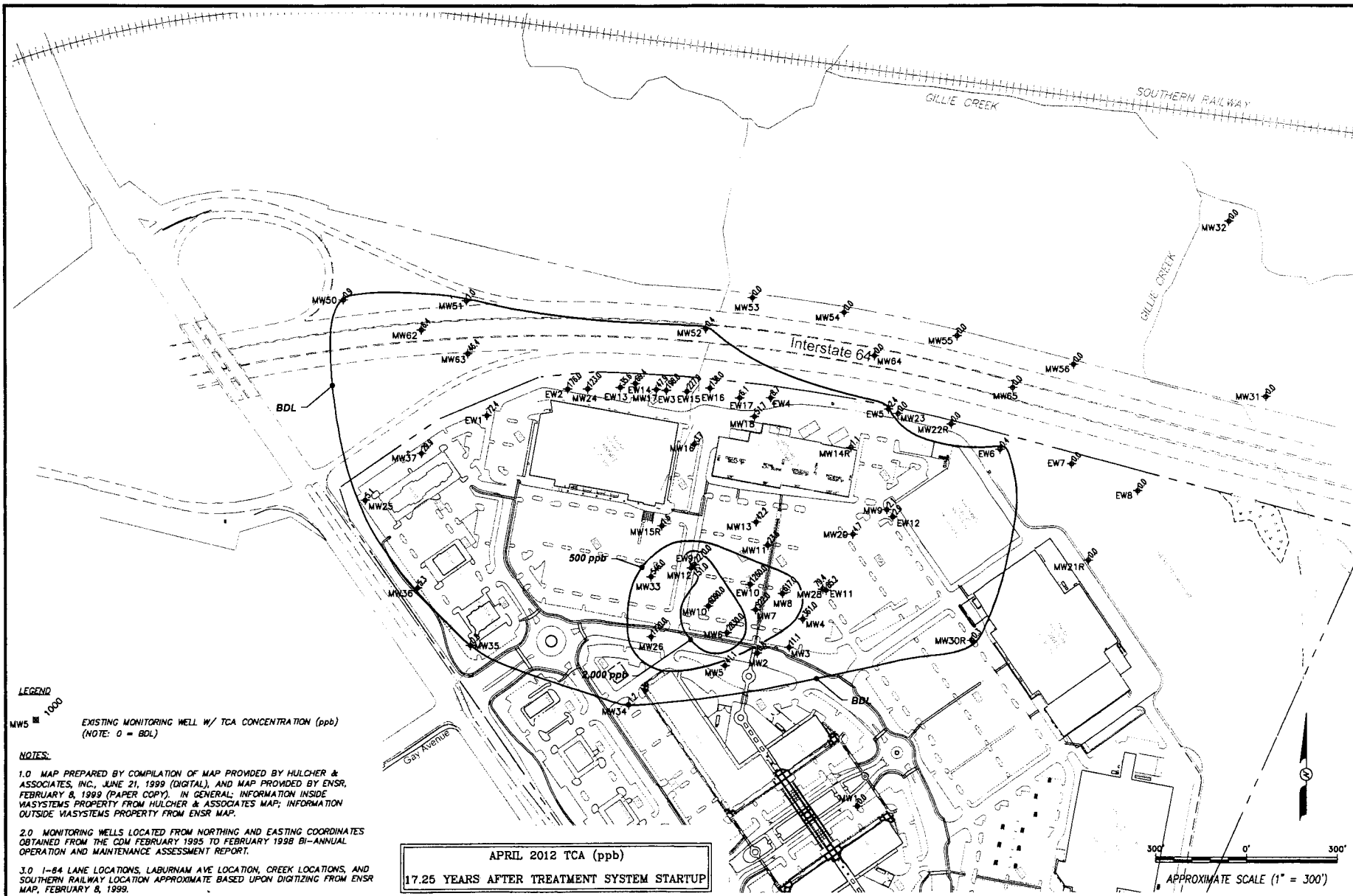
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NO.	DATE	DESCRIPTION	BY	CHKD
1	11/15/12	ISSUED FOR REVIEW	J. HARRIS	
2	11/15/12	REVIEWED		J. HARRIS
3	11/15/12	APPROVED		J. HARRIS

LSI Corporation
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 4500 Laburnum Ave., Richmond, Va
 NOVEMBER 2012 TOTAL VOCs (ppb)



LEGEND
MW5 ■ 1,000
EXISTING MONITORING WELL W/ TCA CONCENTRATION (ppb)
(NOTE: 0 = BDL)

NOTES:
1.0 MAP PREPARED BY COMPILATION OF MAP PROVIDED BY HULCHER & ASSOCIATES, INC., JUNE 21, 1999 (DIGITAL), AND MAP PROVIDED BY ENSR, FEBRUARY 8, 1999 (PAPER COPY). IN GENERAL, INFORMATION INSIDE VIASYSTEMS PROPERTY FROM HULCHER & ASSOCIATES MAP; INFORMATION OUTSIDE VIASYSTEMS PROPERTY FROM ENSR MAP.
2.0 MONITORING WELLS LOCATED FROM NORTHING AND EASTING COORDINATES OBTAINED FROM THE CDM FEBRUARY 1995 TO FEBRUARY 1998 BI-ANNUAL OPERATION AND MAINTENANCE ASSESSMENT REPORT.
3.0 I-64 LANE LOCATIONS, LABURNAM AVE LOCATION, CREEK LOCATIONS, AND SOUTHERN RAILWAY LOCATION APPROXIMATE BASED UPON DIGITIZING FROM ENSR MAP, FEBRUARY 8, 1999.

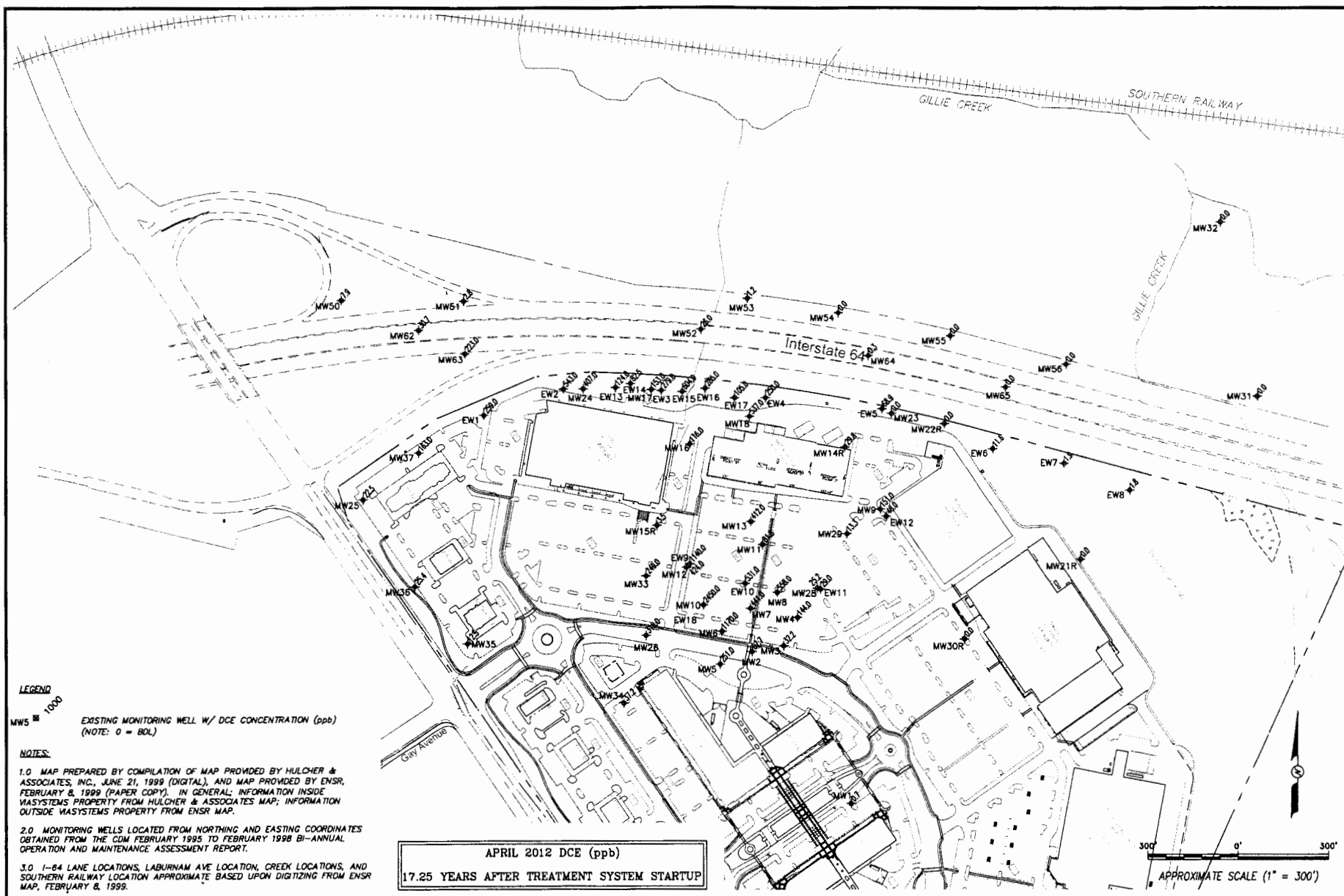
APRIL 2012 TCA (ppb)
17.25 YEARS AFTER TREATMENT SYSTEM STARTUP

NO.	REV.	DATE	BY	CHKD.	DESCRIPTION
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LSI Corporation
Former Lucent Richmond Works
4500 Laburnum Ave., Richmond, Va
APRIL 2012 TCA (ppb)

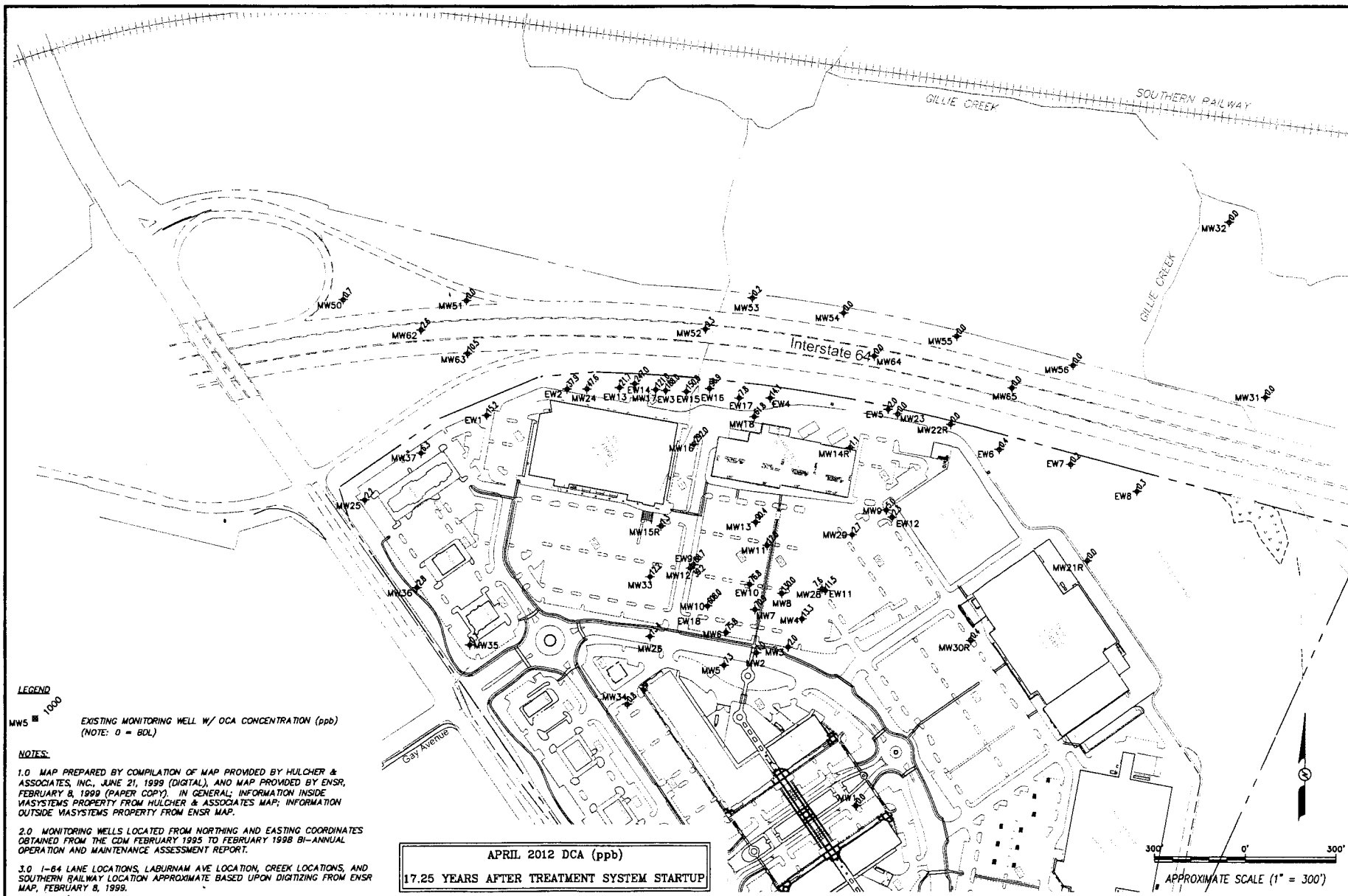
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3	04/12/00	Revised map
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6	04/12/00	Revised map
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8	04/12/00	Revised map
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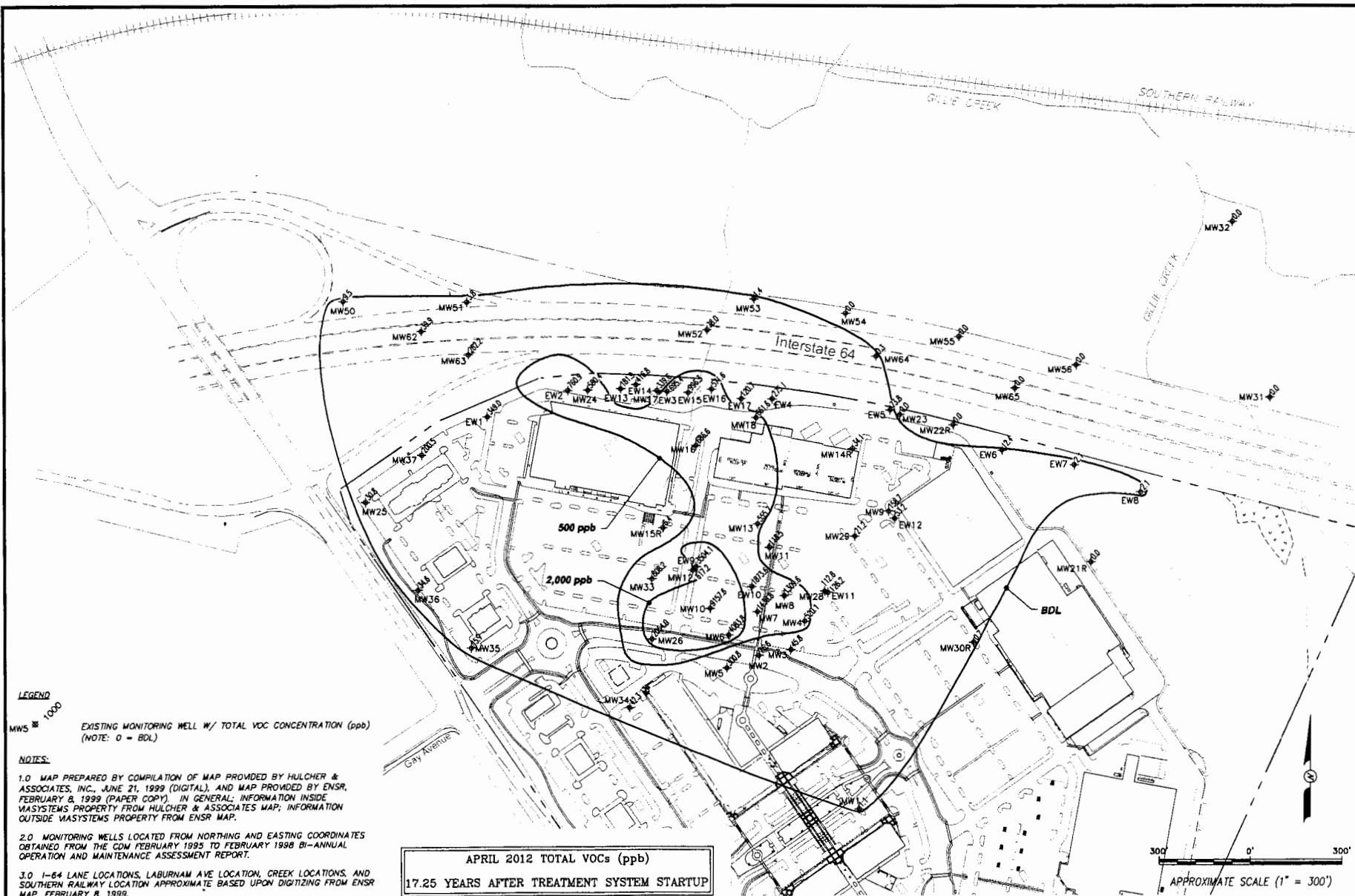
LSI Corporation
Former Lucant Richmond Works
4500 Laburnum Ave., Richmond, Va
APRIL 2012 DCE (ppb)



NO.	DATE	DESCRIPTION	BY	CHKD

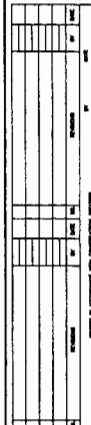
LSI Corporation
Former Lucent Richmond Works
4500 Laburnum Ave., Richmond, Va
APRIL 2012 DCA (ppb)





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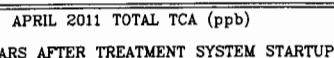
LSI Corporation
Former Lucet Richmond Works
4500 Laburnum Ave., Richmond, Va
APRIL 2012 TOTAL VOCs (ppb)



LSI Corporation
Former Lucent Richmond Works
4500 Laburnum Ave., Richmond, Va
OCTOBER 2011 TOTAL VOCs (ppb)

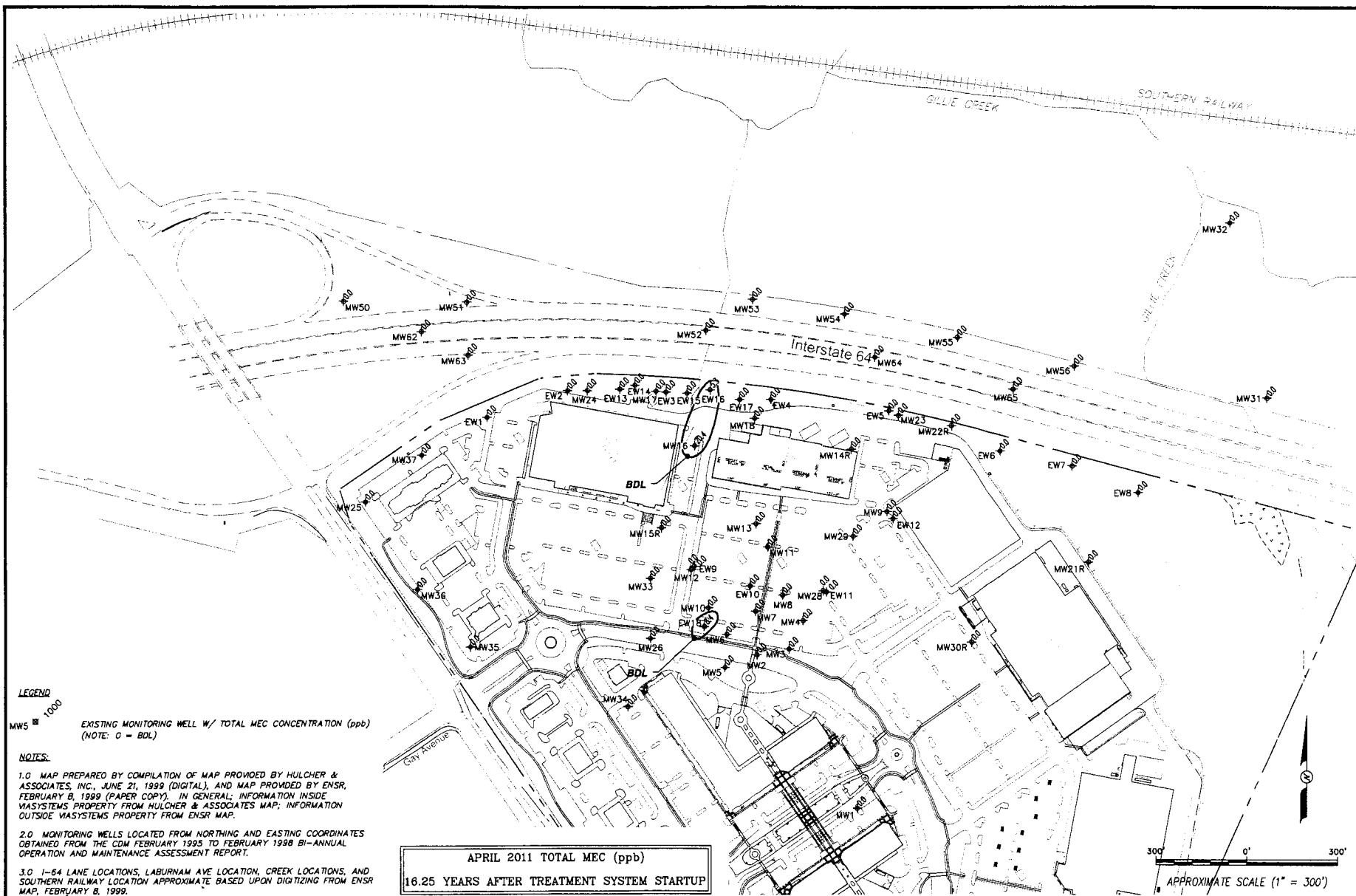
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LSI Corporation
Former Lucent Richmond Works
4500 Laburnum Ave., Richmond, Va
APRIL 2011 TOTAL TCA (mbb)



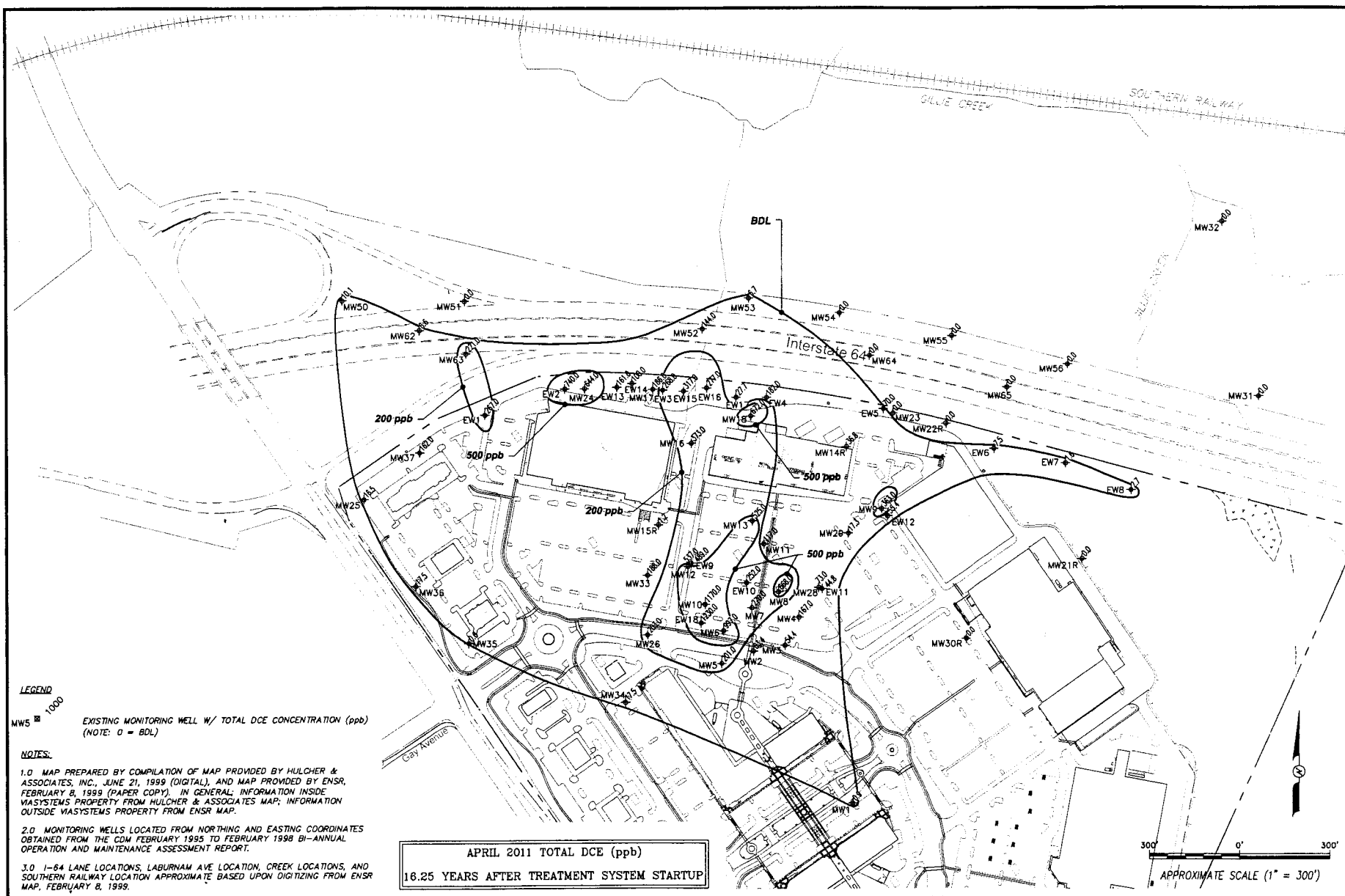
NO.	DATE	BY	DESCRIPTION
1	04/11/11	W. J. HARRIS	ISSUED FOR CONSTRUCTION
2	04/11/11	W. J. HARRIS	ISSUED FOR CONSTRUCTION
3	04/11/11	W. J. HARRIS	ISSUED FOR CONSTRUCTION
4	04/11/11	W. J. HARRIS	ISSUED FOR CONSTRUCTION
5	04/11/11	W. J. HARRIS	ISSUED FOR CONSTRUCTION
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9	04/11/11	W. J. HARRIS	ISSUED FOR CONSTRUCTION
10	04/11/11	W. J. HARRIS	ISSUED FOR CONSTRUCTION

LSI Corporation
Former Lucent Richmond Works
4500 Laburnum Ave., Richmond, Va
APRIL 2011 TOTAL MEC (ppb)



NO.	DATE	DESCRIPTION	BY	CHKD
1	04/11/11	APRIL 2011 TOTAL DCE (ppb)	LSI	LSI
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LSI Corporation
Former Lucent Richmond Works
4500 Laburnum Ave., Richmond, Va
APRIL 2011 TOTAL DCE (ppb)



APR 2011 TOTAL PCA (PAB)

LSI Corporation
Former Lucent Richmond Works

1000 Laburnum Ave., Richmond,
APRIL 2011 TOTAL PCA (ppb)



EXISTING MONITORING WELL W/ TOTAL DCA CONCENTRATION (ppb)
(NOTE: 0 = BDL)

NOTES:

1.0 MAP PREPARED BY COMPILATION OF MAP PROVIDED BY HULCHER & ASSOCIATES, INC., JUNE 21, 1999 (DIGITAL), AND MAP PROVIDED BY ENSR, FEBRUARY 8, 1999 (PAPER COPY). IN GENERAL, INFORMATION INSIDE VIASYSTEMS PROPERTY FROM HULCHER & ASSOCIATES MAP; INFORMATION OUTSIDE VIASYSTEMS PROPERTY FROM ENSR MAP.

2.0 MONITORING WELLS LOCATED FROM NORTHING AND EASTING COORDINATES OBTAINED FROM THE COM FEBRUARY 1995 TO FEBRUARY 1998 BI-ANNUAL OPERATION AND MAINTENANCE ASSESSMENT REPORT.

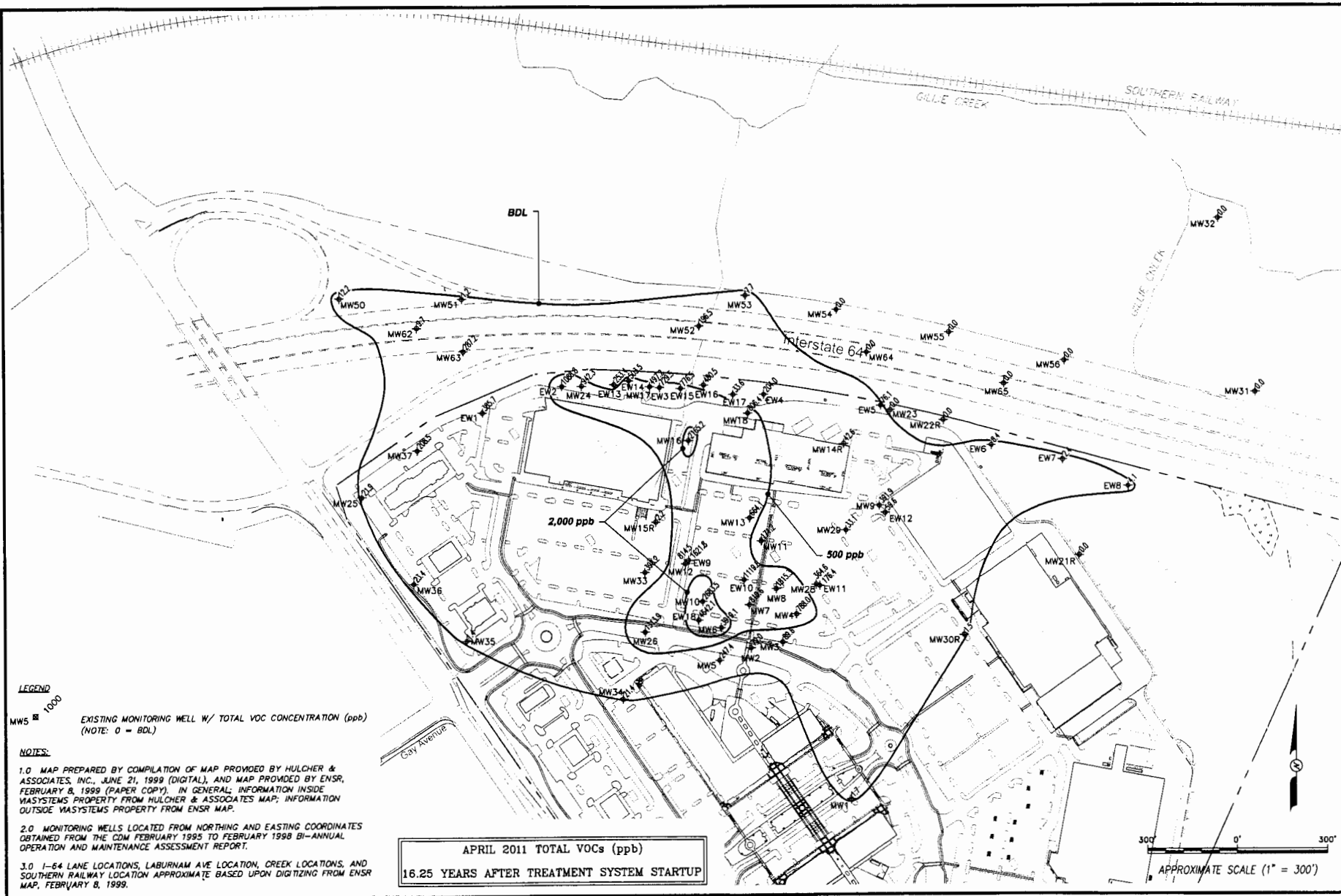
3.0 1-64 LANE LOCATIONS, LABURNAM AVE LOCATION, CREEK LOCATIONS, AND SOUTHERN RAILWAY LOCATION APPROXIMATE BASED UPON DIGITIZING FROM ENSR MAP, FEBRUARY 8, 1999.

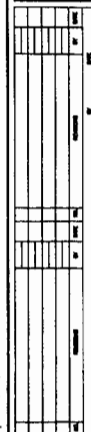
APRIL 2011 TOTAL DCA (ppb)

16.25 YEARS AFTER TREATMENT SYSTEM STARTUP

300' 0' 30'

APPROXIMATE SCALE (1" = 300')

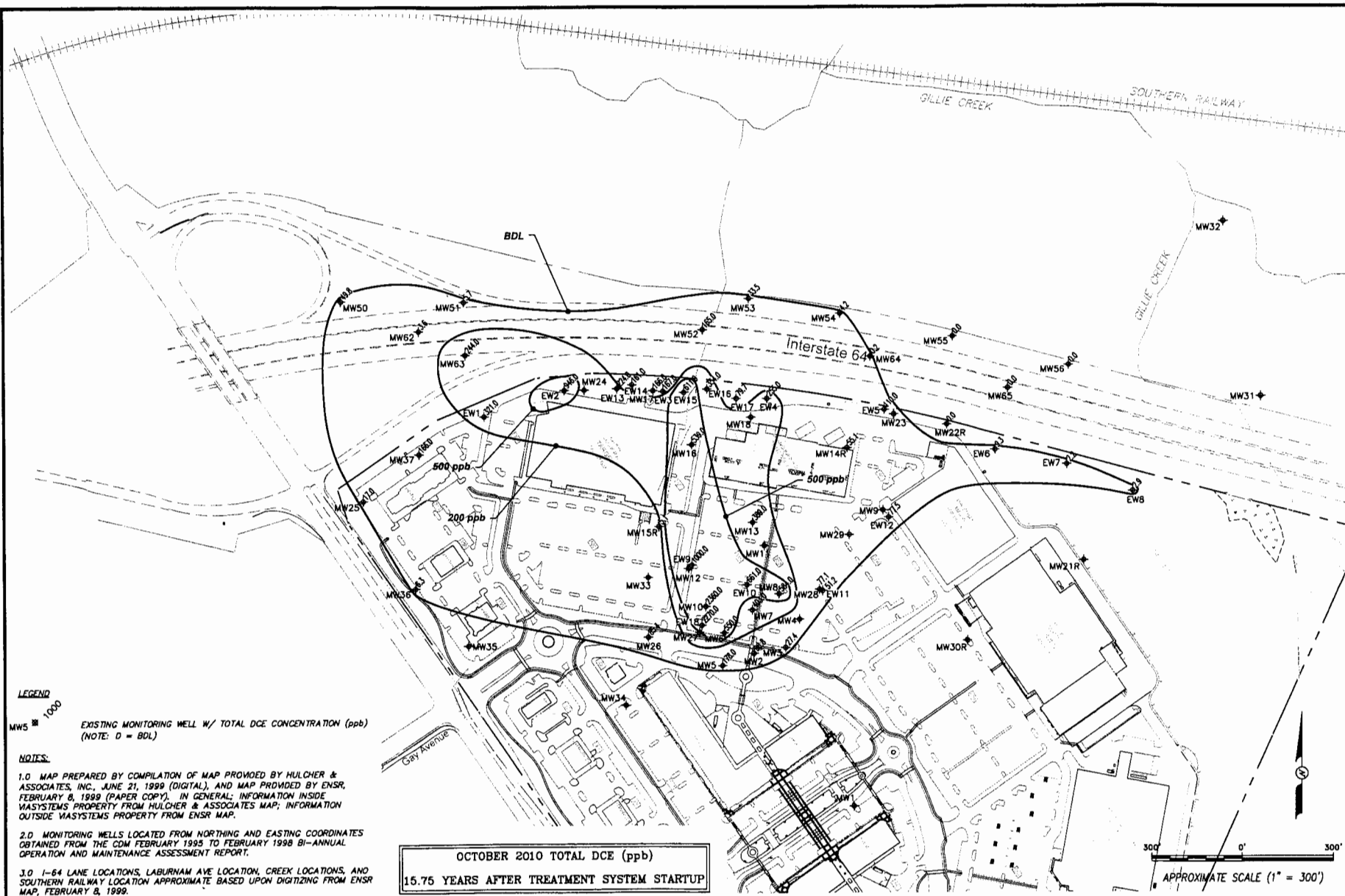




LSI Corporation
Former Lucent Richmond Works
4500 Laburnum Ave., Richmond, Va

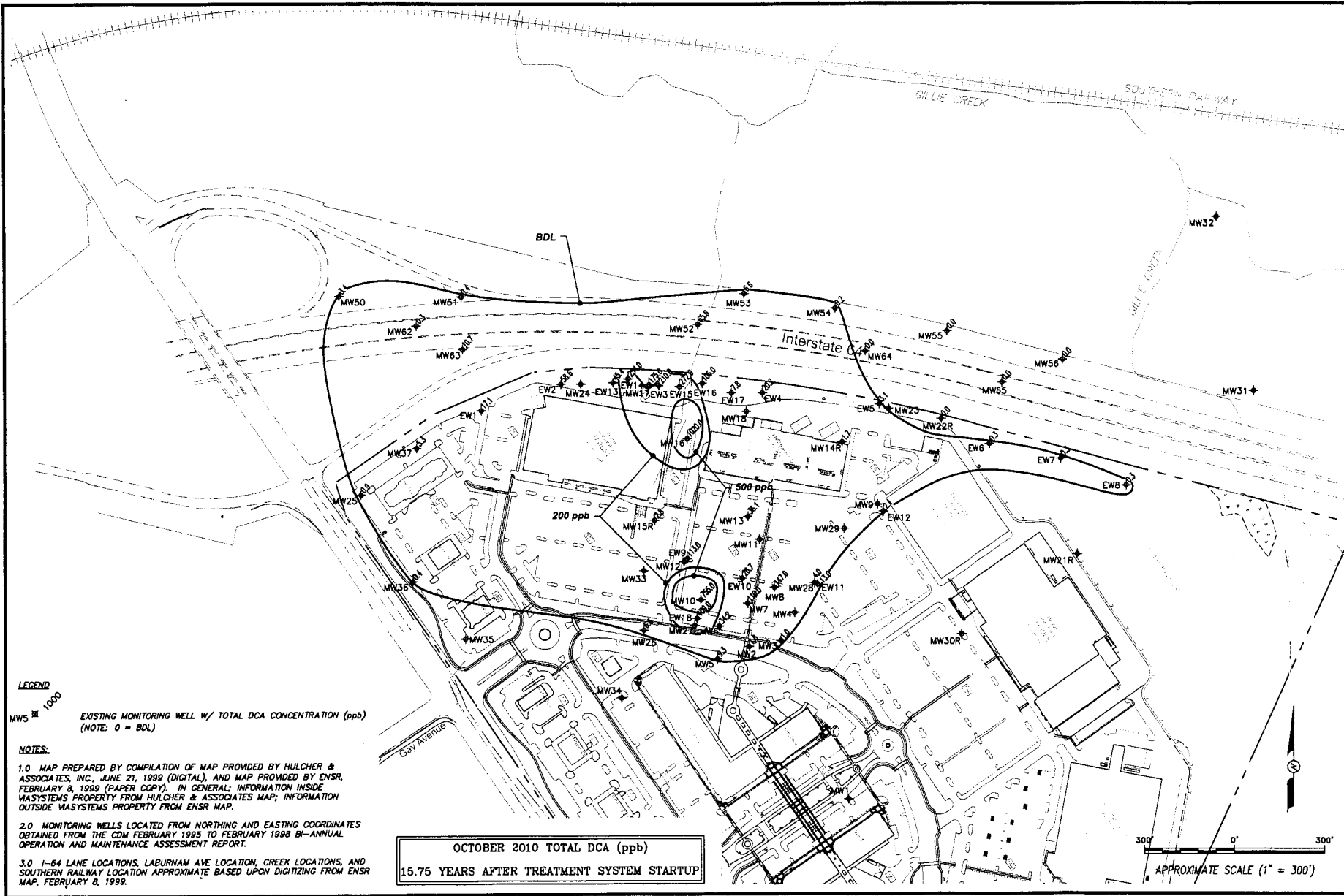
NO.	DATE	DESCRIPTION	BY	CHKD
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LSI Corporation
Former Lucent Richmond Works
4500 Laburnum Ave., Richmond, Va
OCTOBER 2010 TOTAL DCE (ppb)



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LSI Corporation
Former Lucent Richmond Works
4500 Laburnum Ave., Richmond, Va
OCTOBER 2010 TOTAL DCA (ppb)

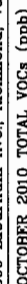


LEGEND
MW5 1000
EXISTING MONITORING WELL W/ TOTAL DCA CONCENTRATION (ppb)
(NOTE: 0 = BDL)

NOTES:
1.0 MAP PREPARED BY COMPILED OF MAP PROVIDED BY HULCHER & ASSOCIATES, INC., JUNE 21, 1999 (DIGITAL), AND MAP PROVIDED BY ENSR, FEBRUARY 8, 1999 (PAPER COPY). IN GENERAL: INFORMATION INSIDE WASYSTEMS PROPERTY FROM HULCHER & ASSOCIATES MAP; INFORMATION OUTSIDE WASYSTEMS PROPERTY FROM ENSR MAP.
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OCTOBER 2010 TOTAL DCA (ppb)
15.75 YEARS AFTER TREATMENT SYSTEM STARTUP

300' 0' 300'
APPROXIMATE SCALE (1" = 300')



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LSI Corporation
Former Lucent Richmond Works
4500 Laburnum Ave., Richmond, Va
APRIL 2010 TCA (ppb)

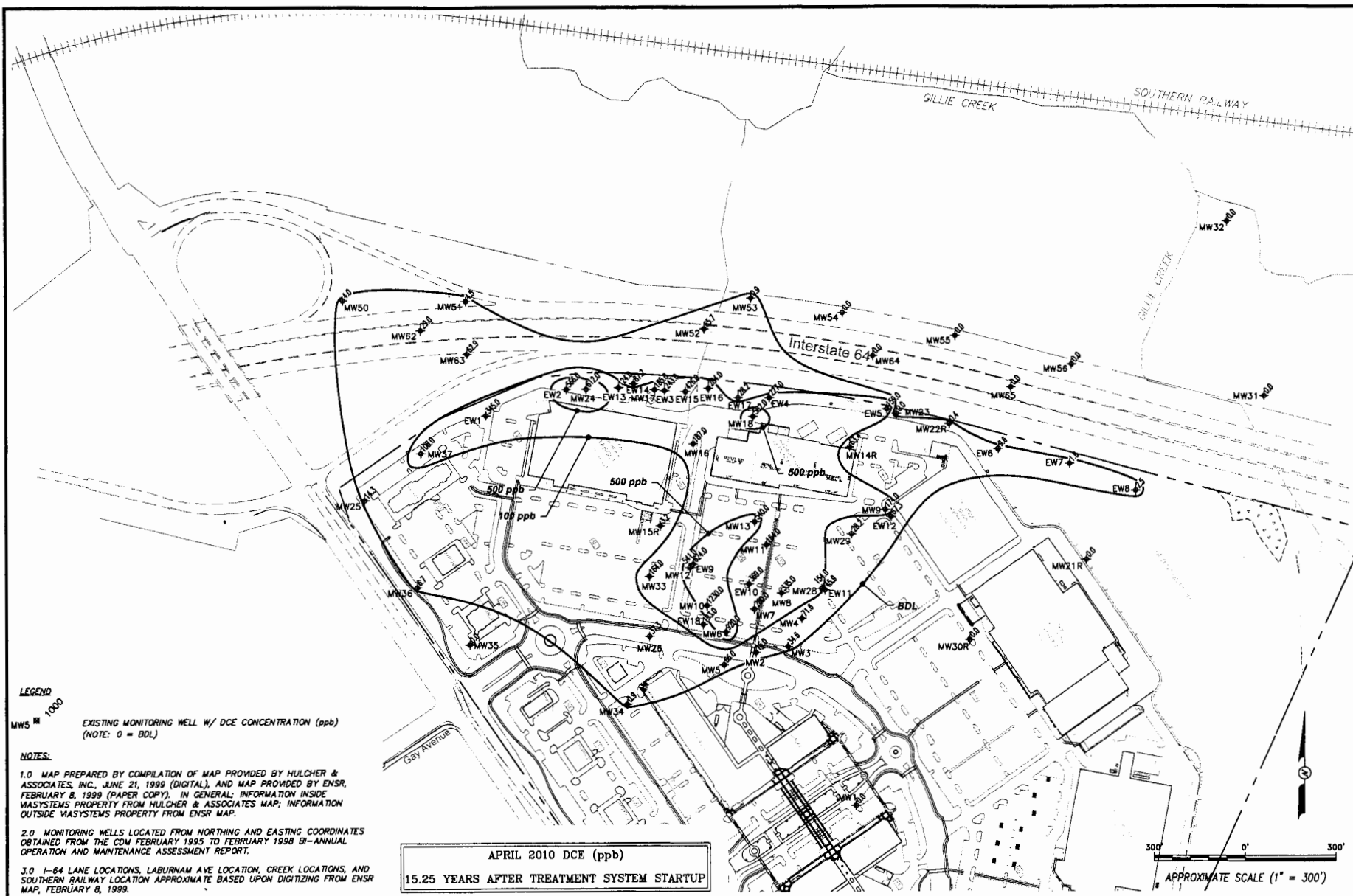


2022年12月

LSI Corporation
Former Lucent Richmond Works
4500 Laburnum Ave., Richmond, Va

APRIL 2010 MEC (ppb)

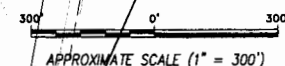




AECOM

LSI Corporation
 Former Lucant Richmond Works
 4500 Laburnum Ave., Richmond, Va
 APRIL 2010 DCE (ppb)

APPENDIX 2010 DCA (rpb)



APRIL 2010 TOTAL VOTES (n=6)

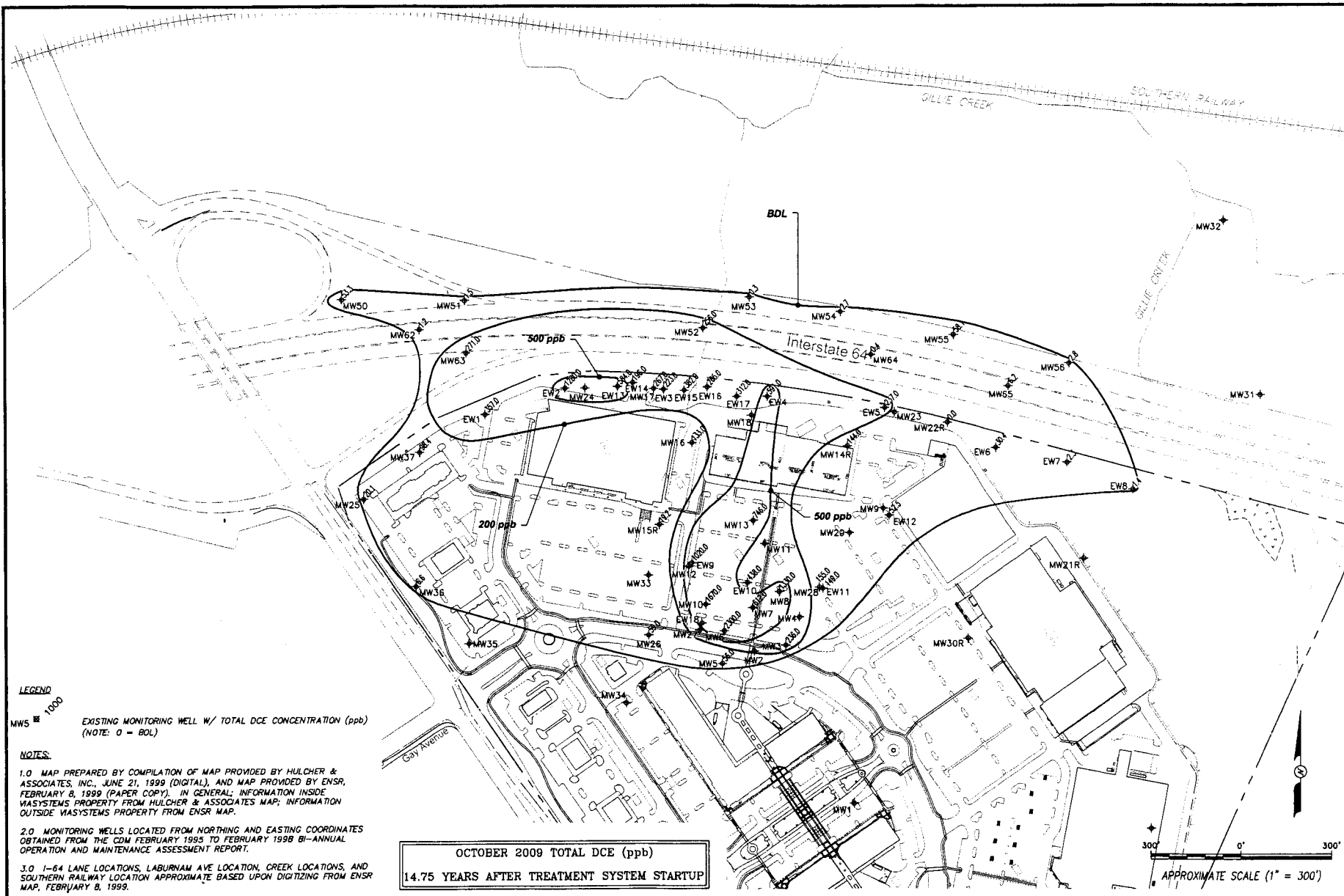
LSI Corporation
Former Lucent Richmond Works

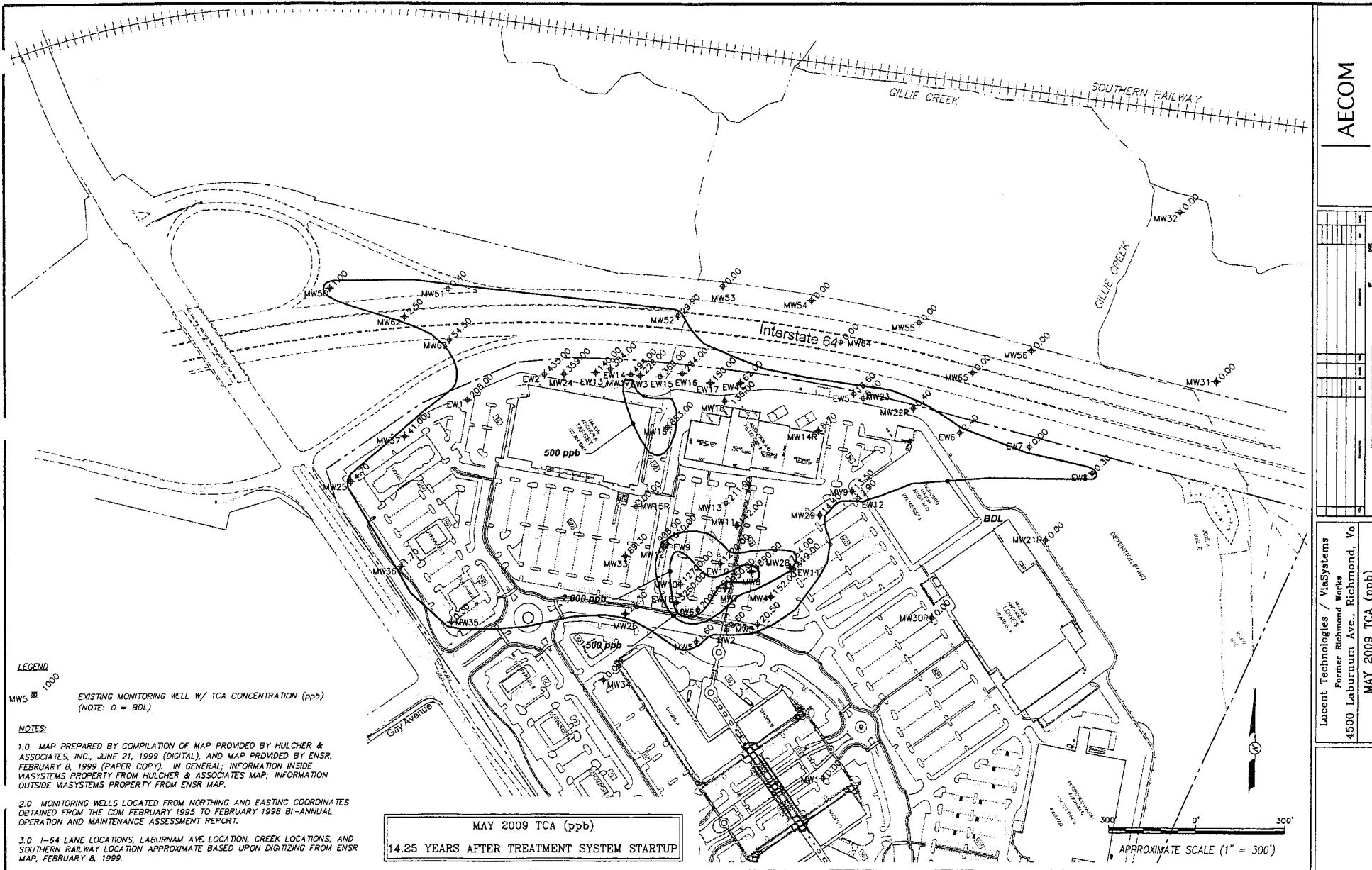
600 LABURNUM AVE., RICHMOND,
APRIL 2010 TOTAL VOCs (ppb)



NO.	DATE	DESCRIPTION	BY	CHKD	DATE
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LSI Corporation
Former Lucant Richmond Works
4500 Laburnum Ave., Richmond, Va
OCTOBER 2009 TOTAL DCE (ppb)

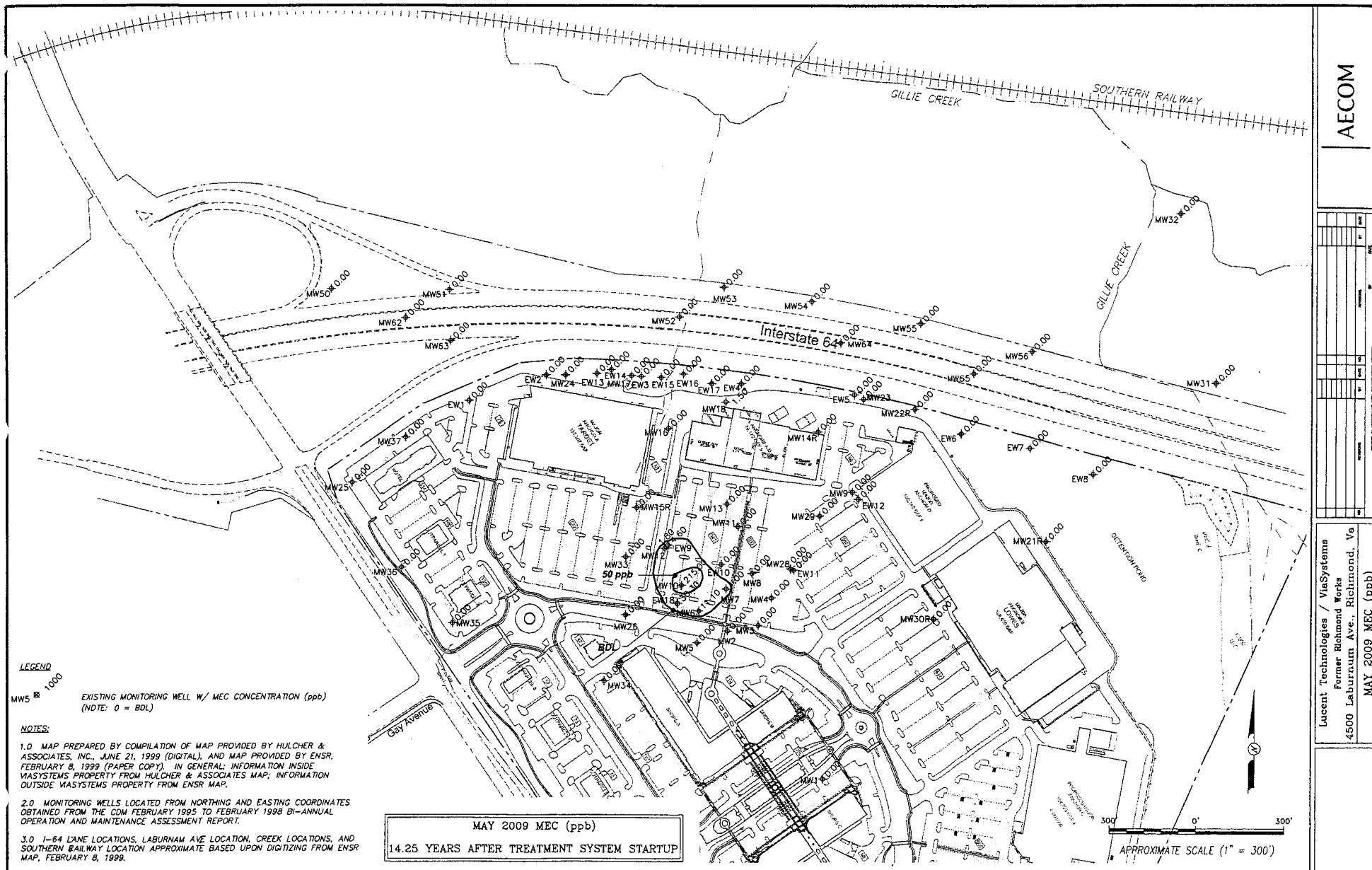




AECOM

NO.	DATE	DESCRIPTION	BY	CHKD
1	05/05/09	ISSUED FOR CONSTRUCTION	W. H. HARRIS	J. L. HARRIS
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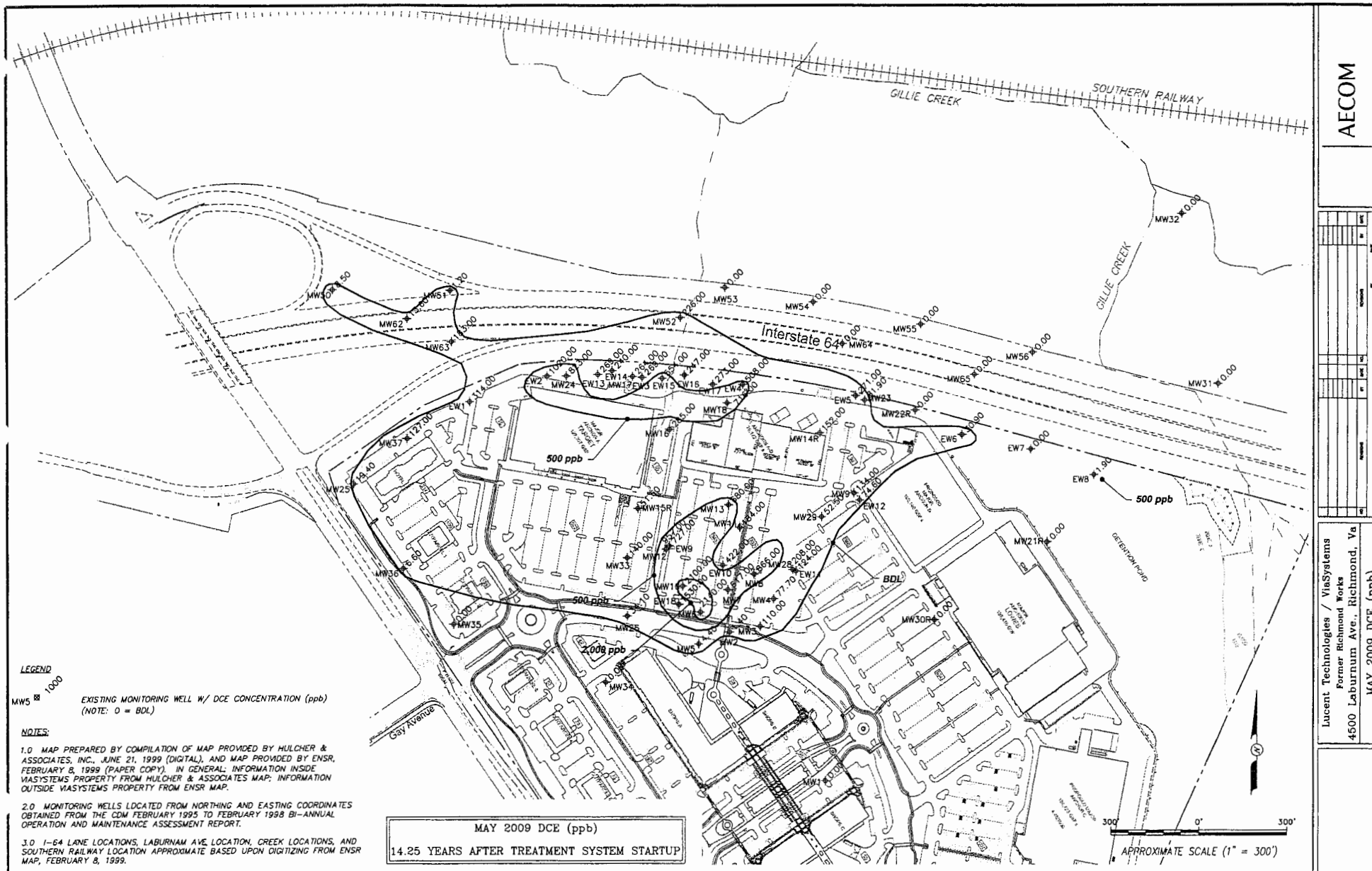
Lucent Technologies / ViaSystems
Former Richmond Works
4500 Laburnum Ave., Richmond, Va
MAY 2009 TCA (ppb)



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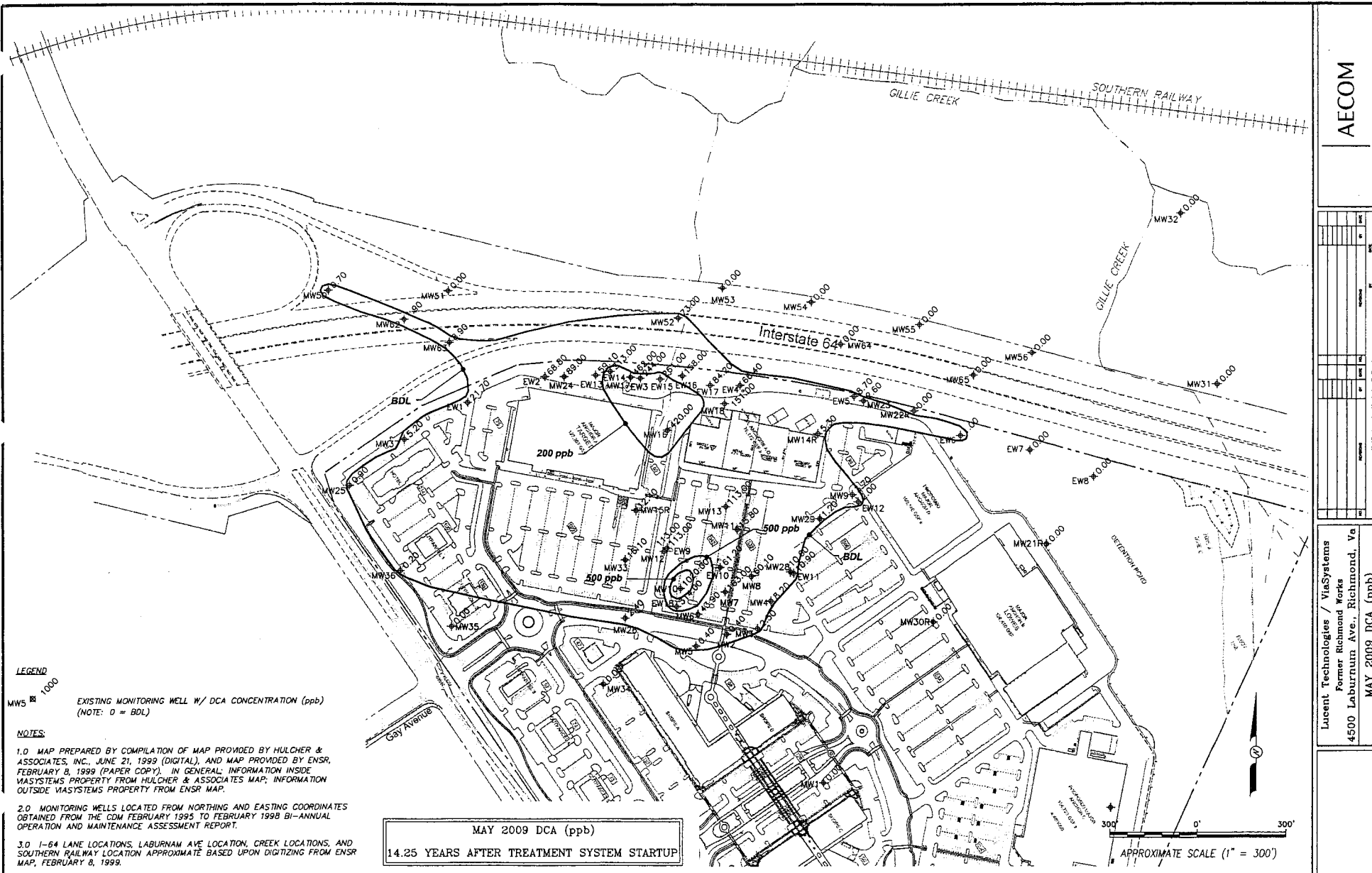
NO.	DATE	BY	DESCRIPTION
1	05/01/09	W. J. HARRIS	ISSUED FOR CONSTRUCTION
2	05/01/09	W. J. HARRIS	ISSUED FOR CONSTRUCTION
3	05/01/09	W. J. HARRIS	ISSUED FOR CONSTRUCTION
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6	05/01/09	W. J. HARRIS	ISSUED FOR CONSTRUCTION
7	05/01/09	W. J. HARRIS	ISSUED FOR CONSTRUCTION
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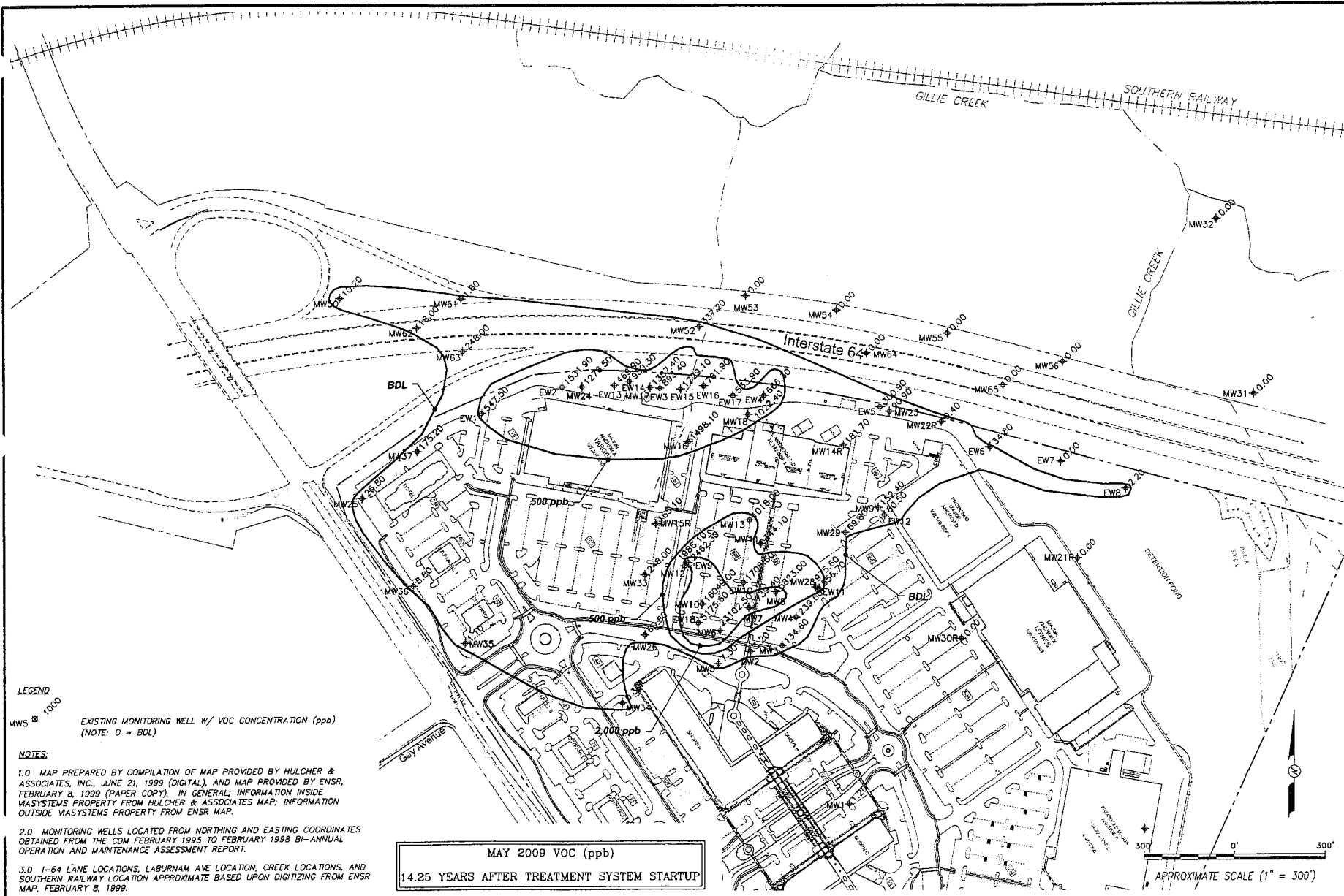
Lucent Technologies / ViaSystems
Former Richmond Works
4500 Laburnum Ave., Richmond, Va
MAY 2009 MEC (ppb)



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Lucent Technologies / ViaSystems
Former Richmond Works
4500 Laburnum Ave., Richmond, Va
MAY 2009 DCE (ppb)





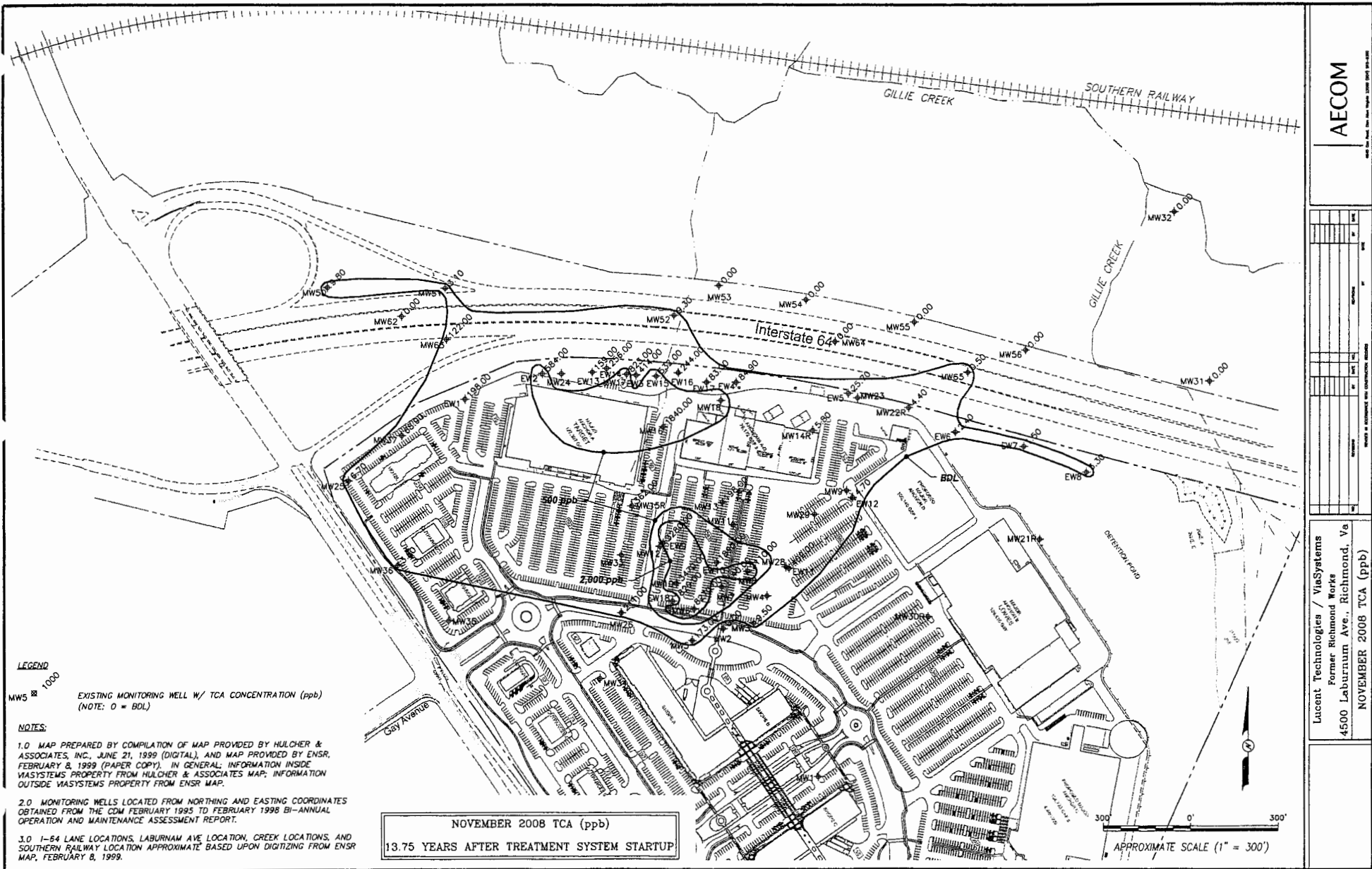
LEGEND
 MWs 1000
 EXISTING MONITORING WELL W/ VOC CONCENTRATION (ppb)
 (NOTE: D = BDL)

NOTES:
 1.0. MAP PREPARED BY COMPILATION OF MAP PROVIDED BY HULCHER & ASSOCIATES, INC., JUNE 21, 1999 (DIGITAL), AND MAP PROVIDED BY ENSR, FEBRUARY 8, 1999 (PAPER COPY). IN GENERAL, INFORMATION INSIDE VIASYSTEMS PROPERTY FROM HULCHER & ASSOCIATES MAP; INFORMATION OUTSIDE VIASYSTEMS PROPERTY FROM ENSR MAP.
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MAY 2009 VOC (ppb)
 14.25 YEARS AFTER TREATMENT SYSTEM STARTUP

AECOM

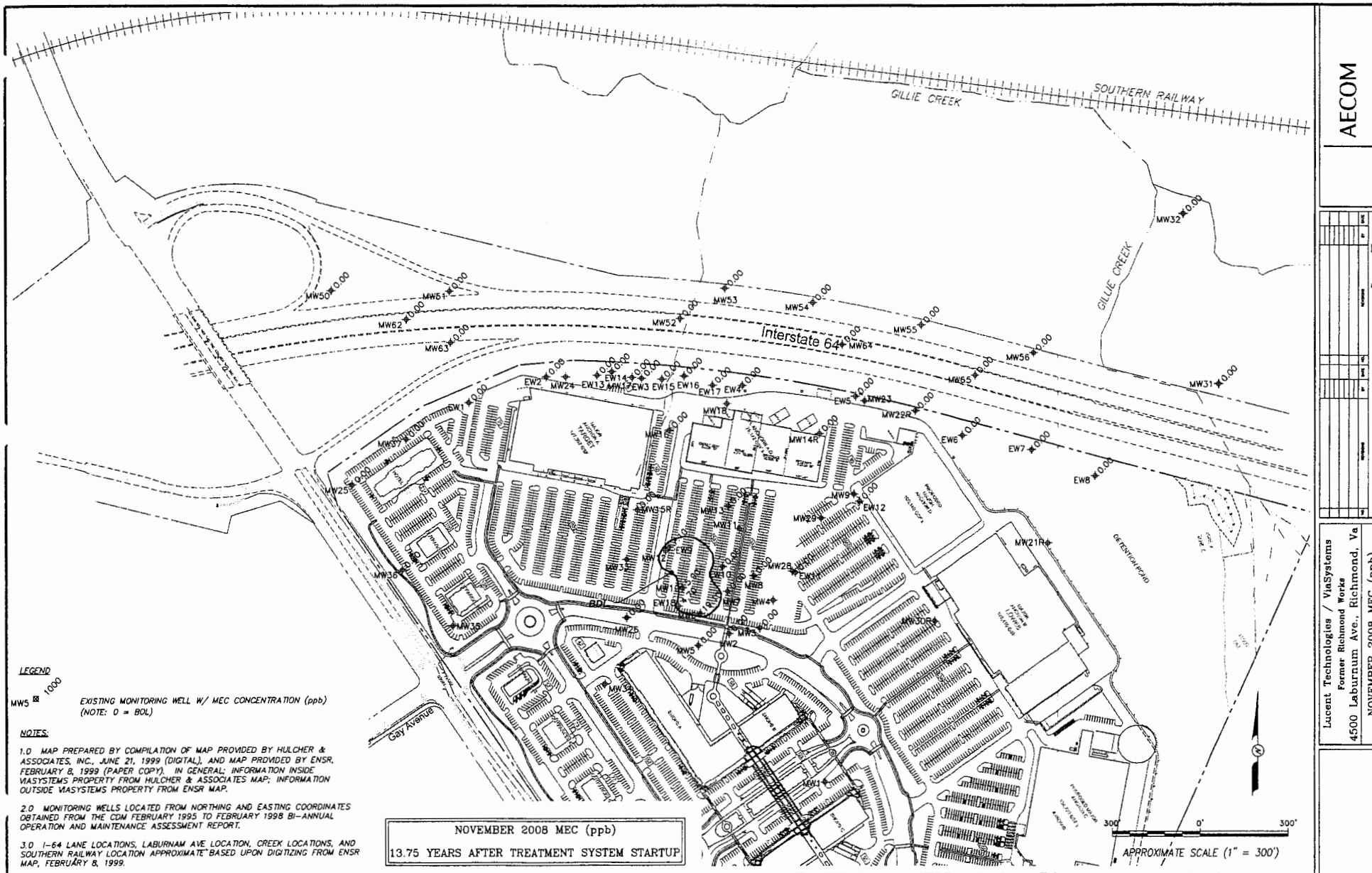
Lucent Technologies / ViaSystems
 Former Richmond Works
 4500 Laburnum Ave., Richmond, VA
 MAY 2009 VOC (ppb)



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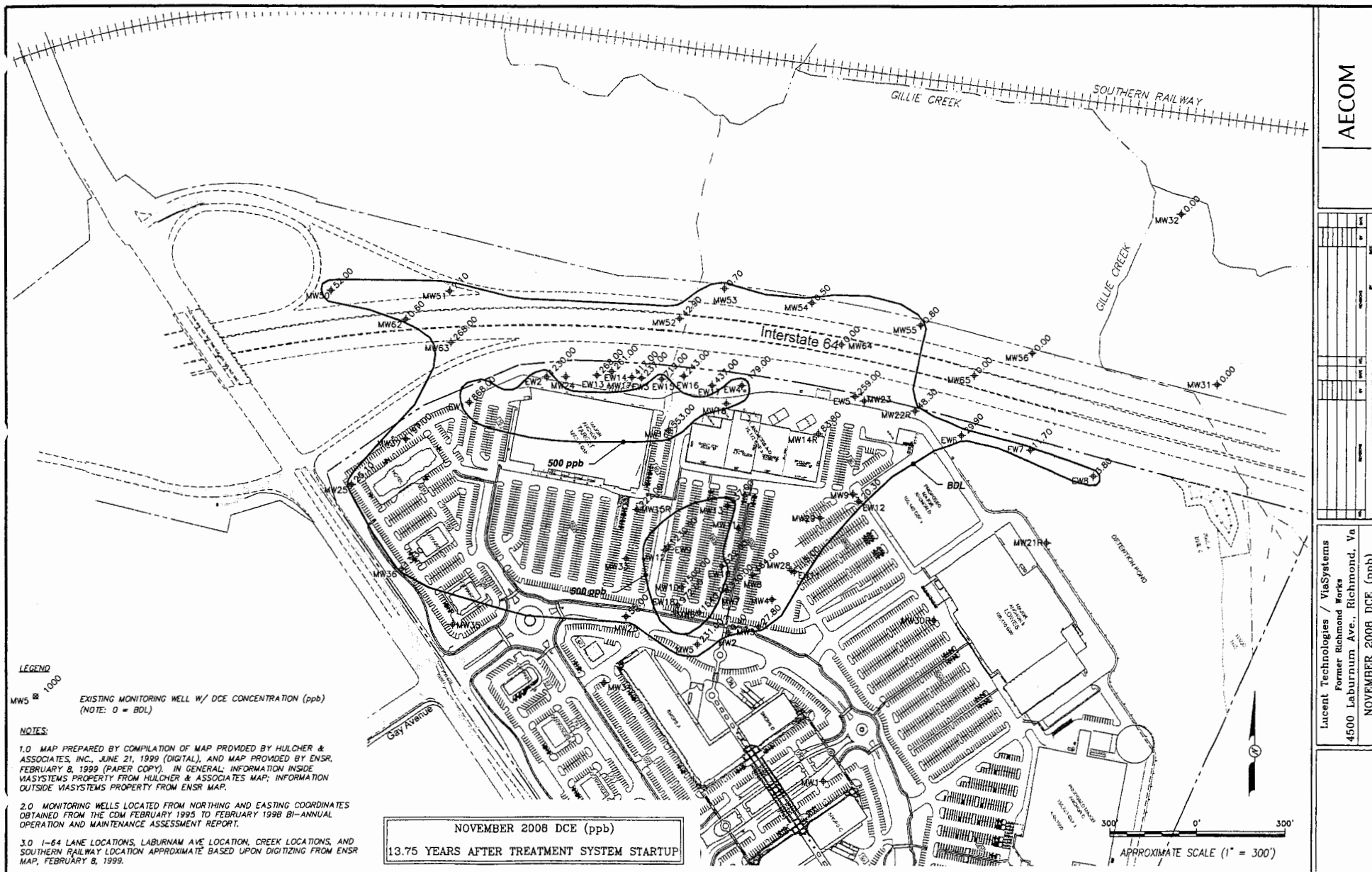
Lucent Technologies / ViaSystems
Former Richmond Works
4500 Laburnum Ave., Richmond, Va
NOVEMBER 2008 TCA (ppb)



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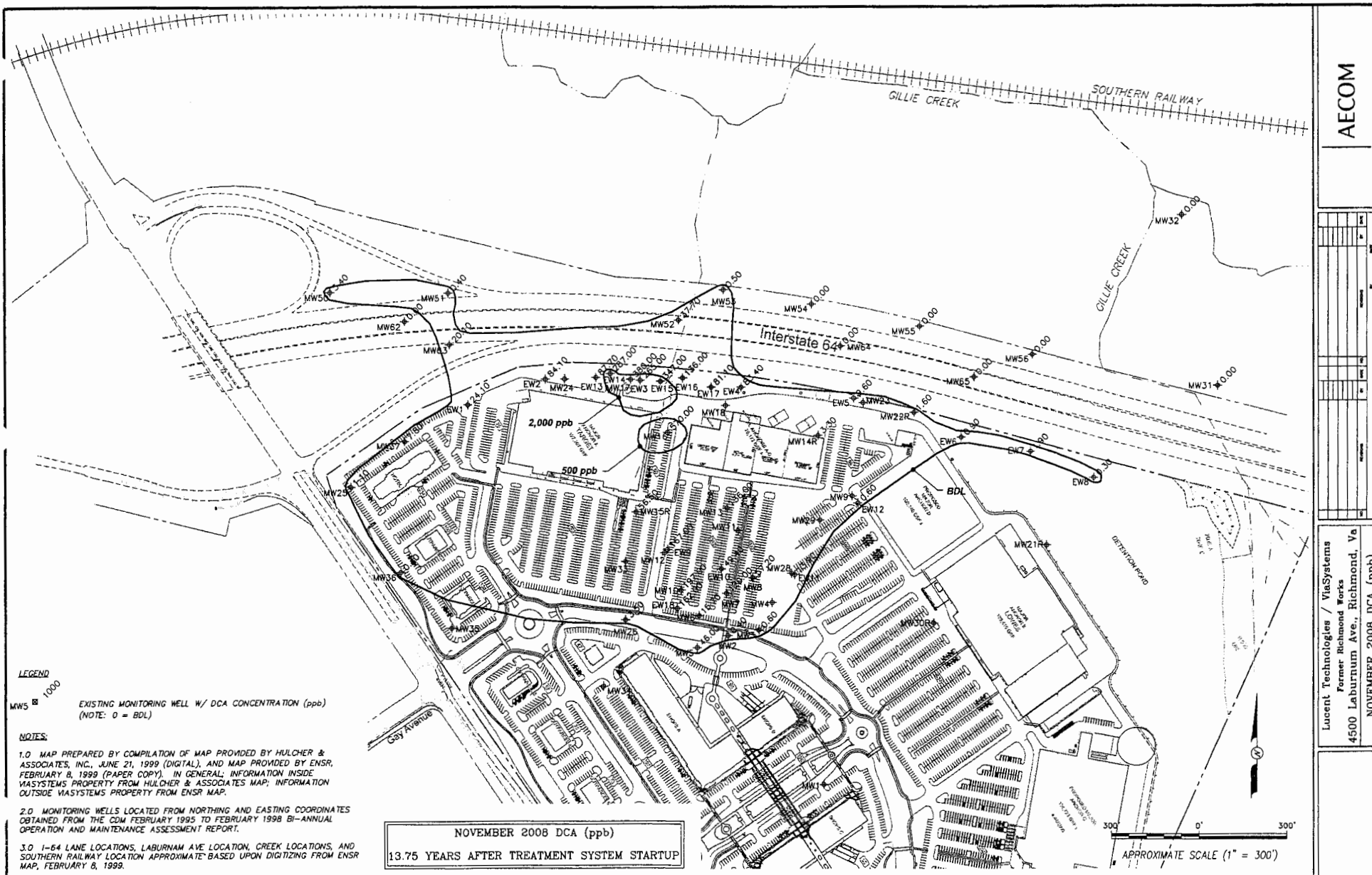
NO.	DATE	DESCRIPTION	BY	CHKD
1	11/08/08	NOVEMBER 2008 MEC (ppb)		

Lucent Technologies / ViaSystems
Former Richmond Works
4500 Laburnum Ave., Richmond, Va
NOVEMBER 2008 MEC (ppb)



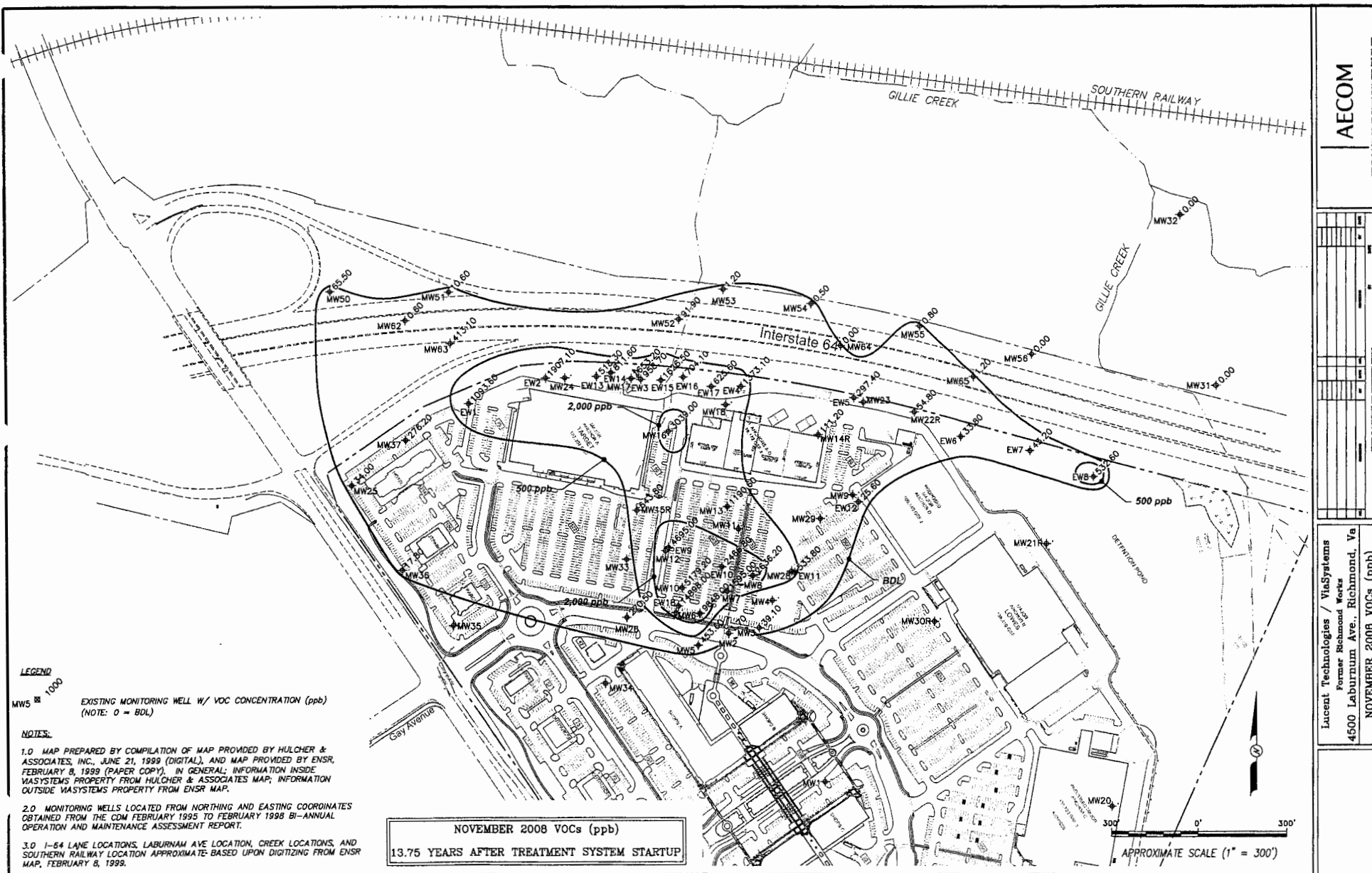
AECOM

Lucent Technologies / ViaSystems
Former Richmond Works
4500 Laburnum Ave., Richmond, Va
NOVEMBER 2008 DCE (ppb)



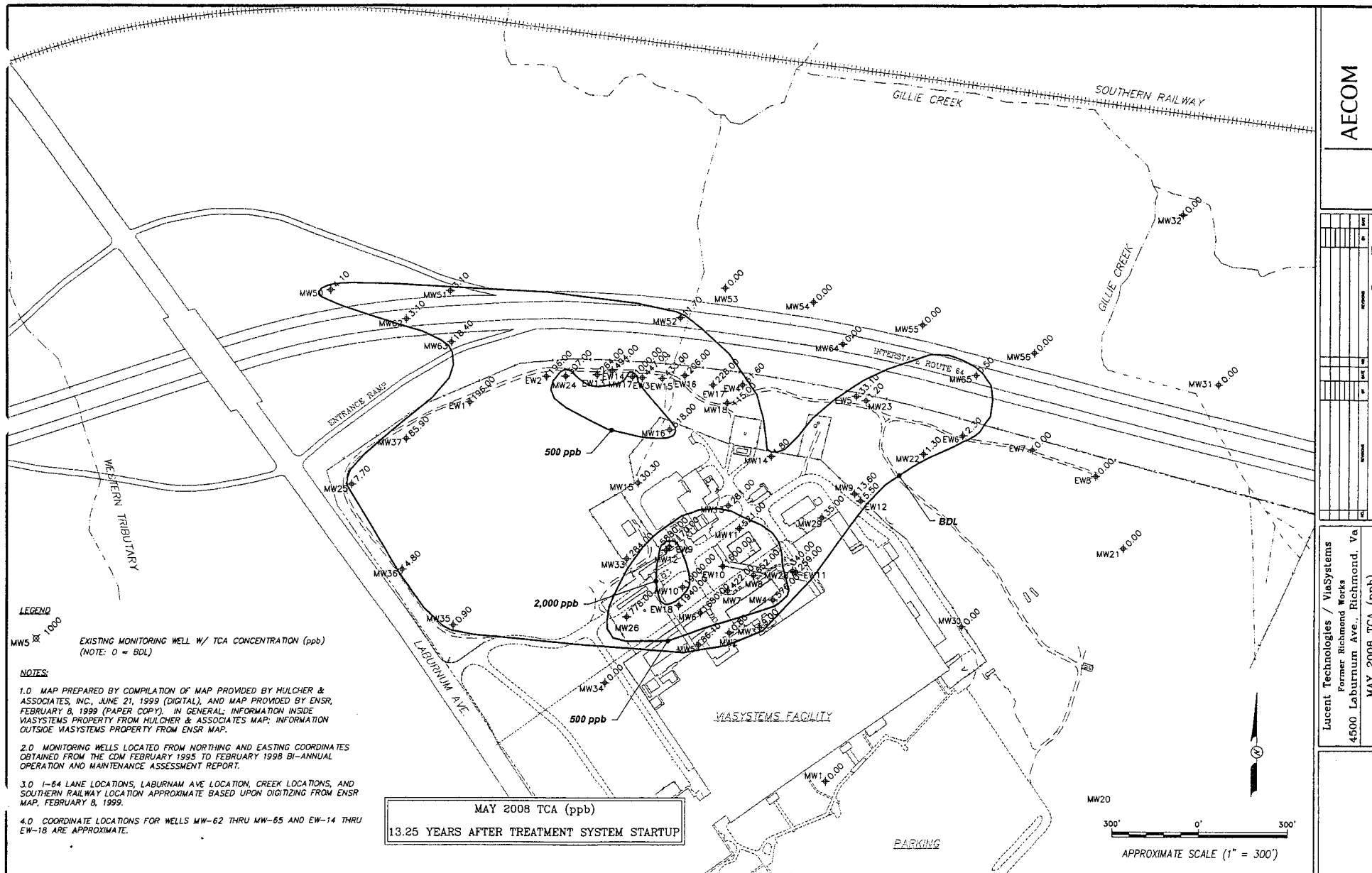
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Lucent Technologies / ViaSystems
Former Richmond Works
4500 Laburnum Ave., Richmond, Va
NOVEMBER 2008 DCA (ppb)



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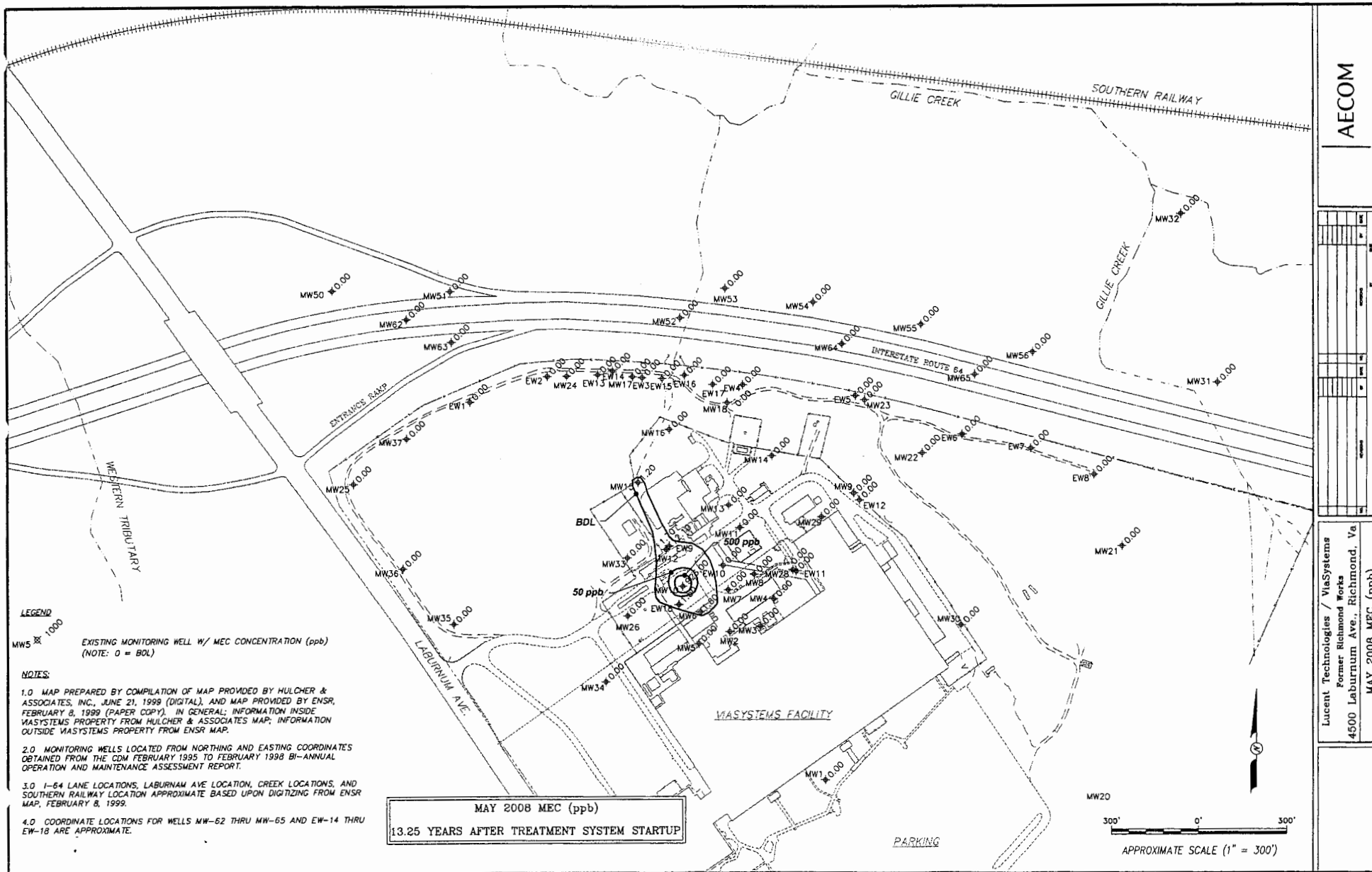
Lucent Technologies / ViaSystems
Former Richmond Works
4500 Laburnum Ave., Richmond, Va
NOVEMBER 2008 VOCs (ppb)



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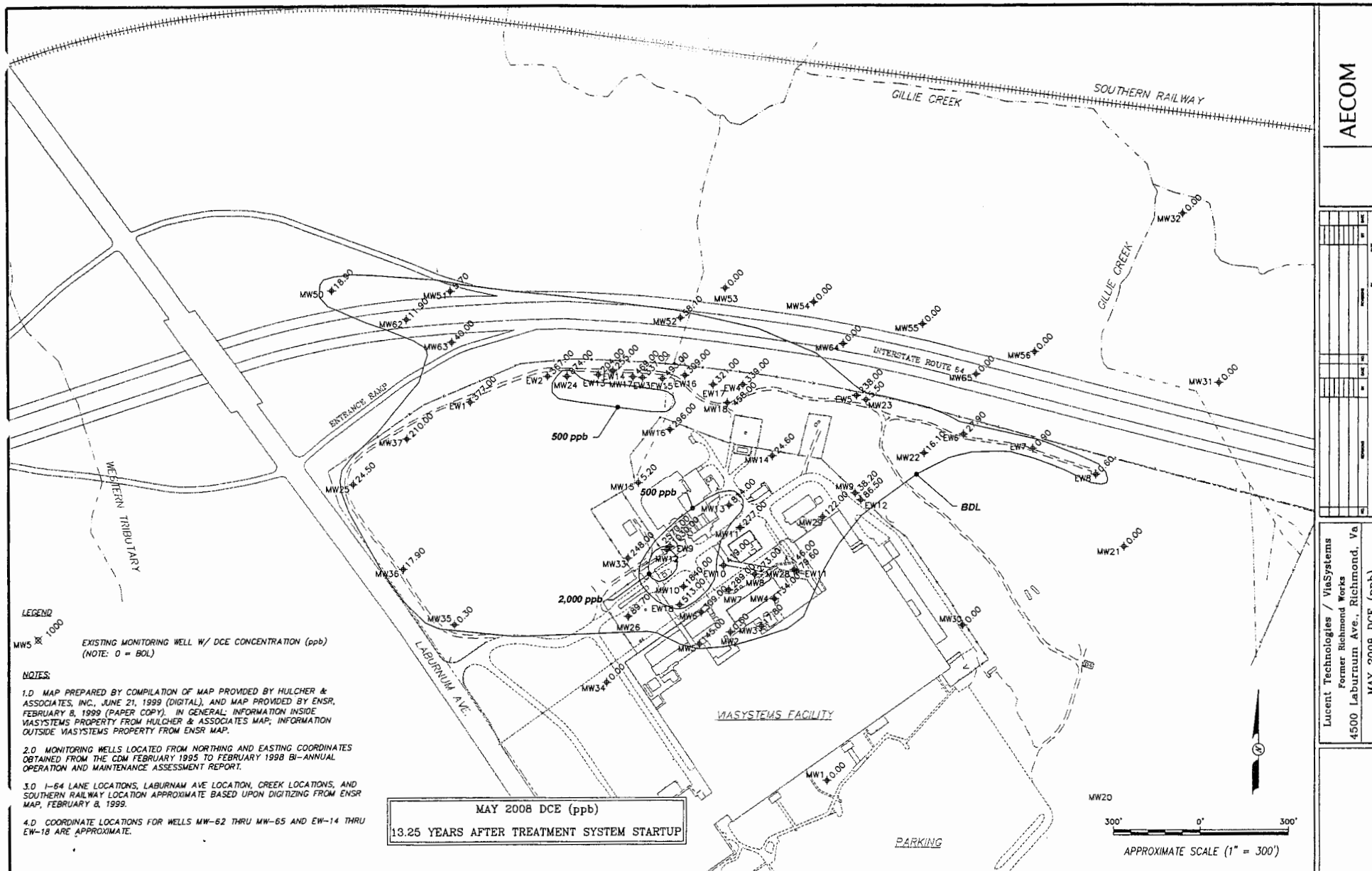
Lucent Technologies / ViaSystems
 Former Richmond Works
 4500 Laburnum Ave., Richmond, Va
 MAY 2008 TCA (ppb)



AECOM

NO.	DATE	DESCRIPTION	BY	CHKD
1	05/01/08	ISSUED FOR CONSTRUCTION REVIEW		
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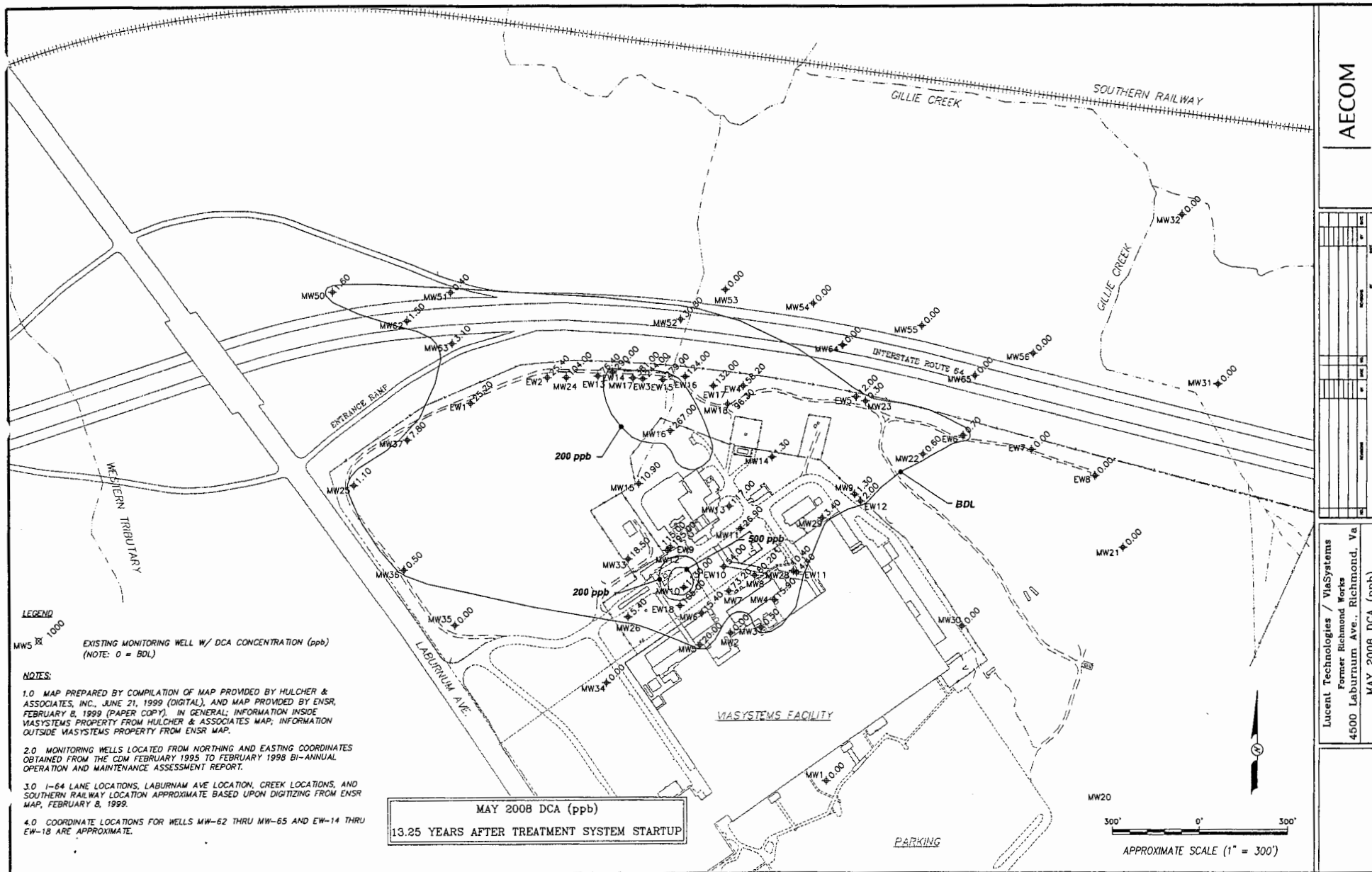
Lucent Technologies / ViaSystems
Former Richmond Works
4500 Laburnum Ave., Richmond, Va
MAY 2008 MEC (ppb)



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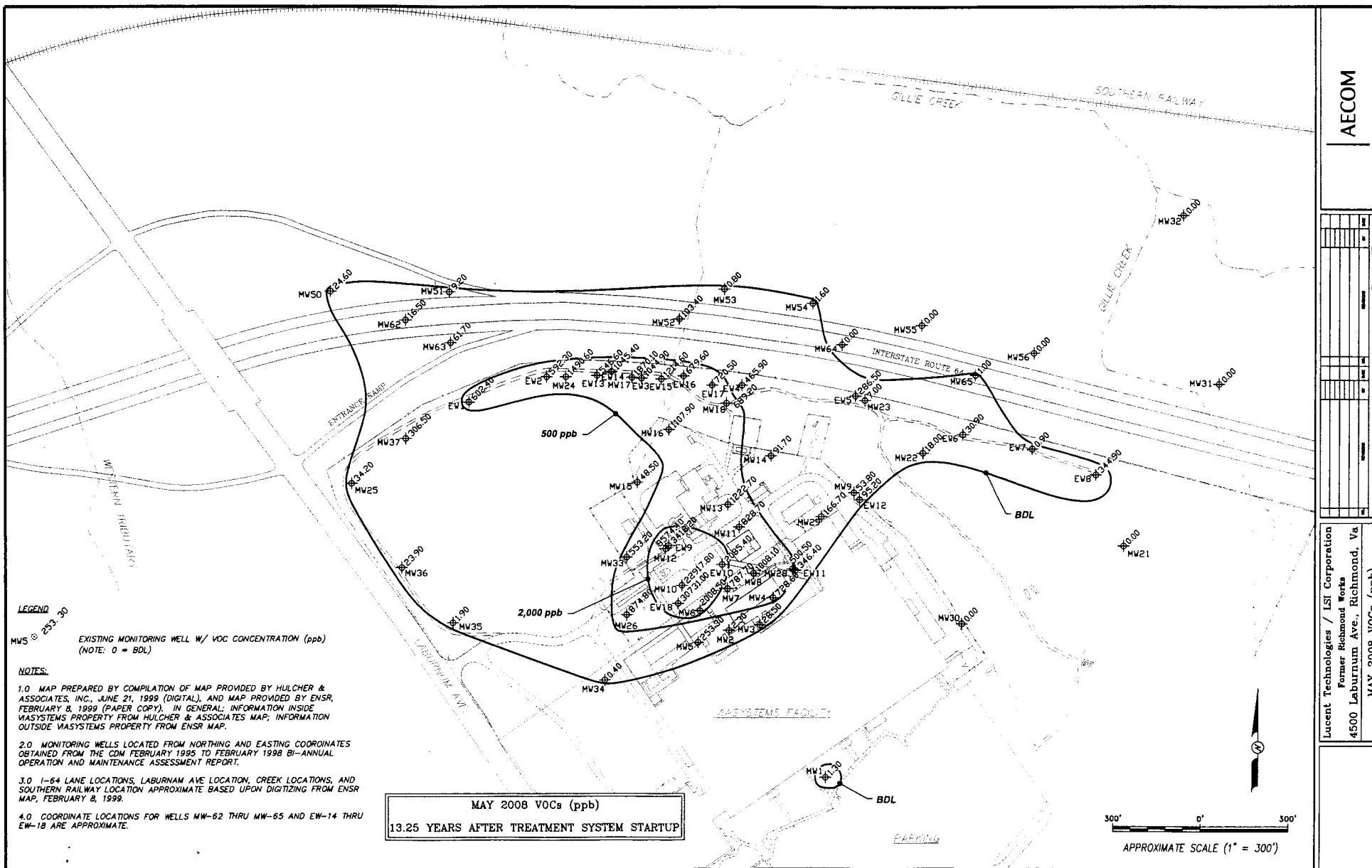
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Lucent Technologies / ViaSystems
Former Richmond Works
4500 Laburnum Ave., Richmond, Va
MAY 2008 DCE (ppb)



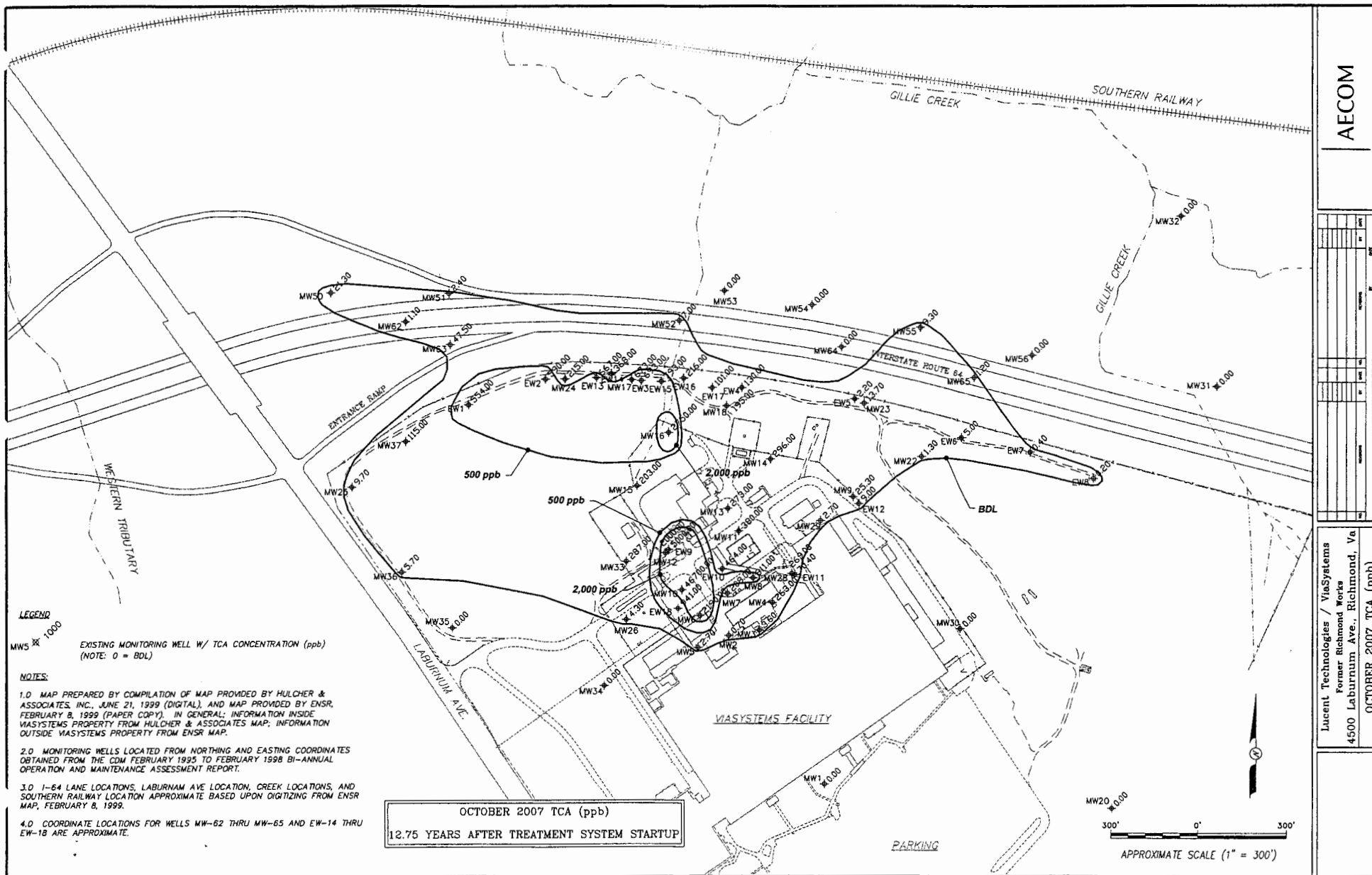
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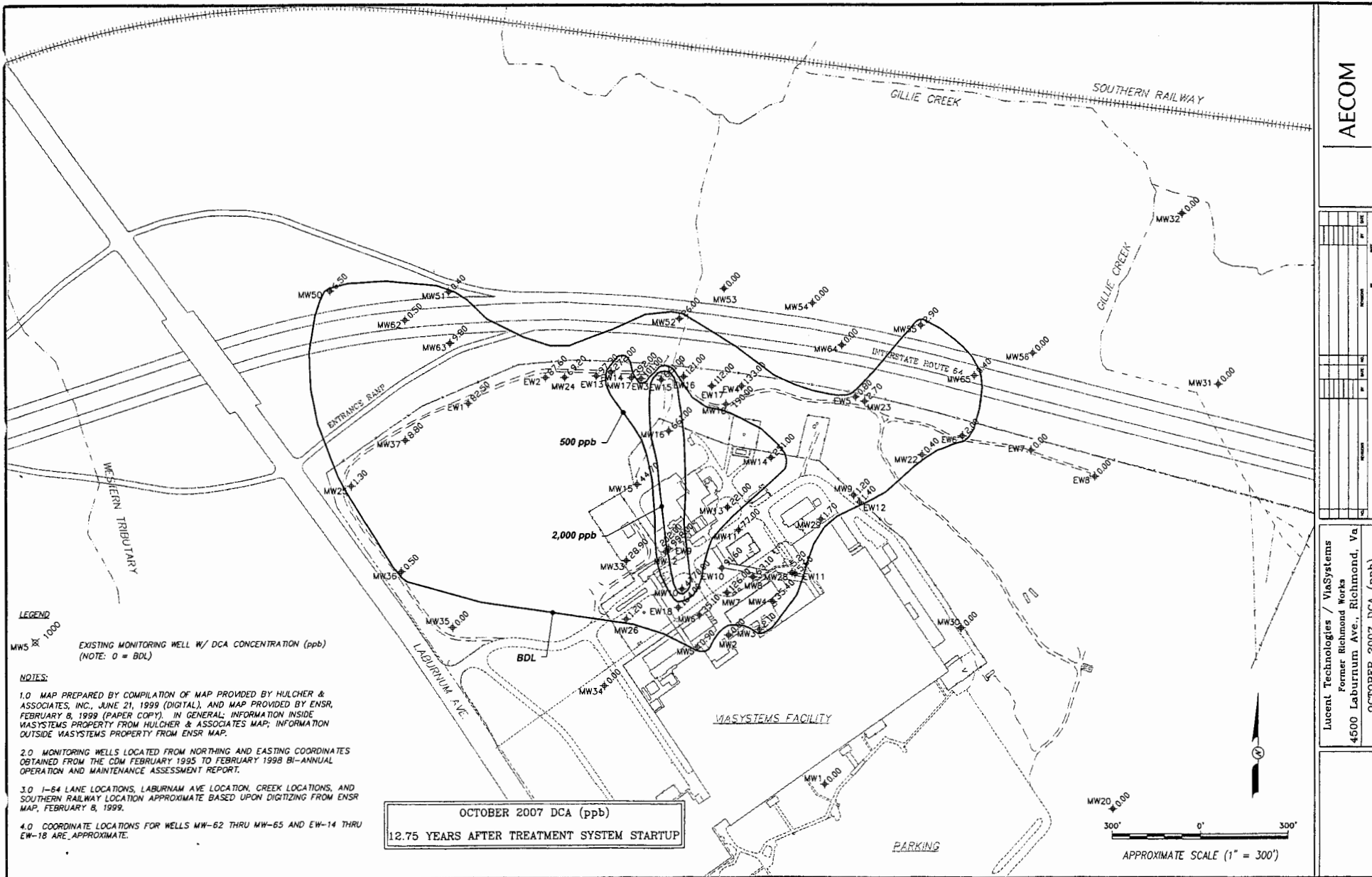
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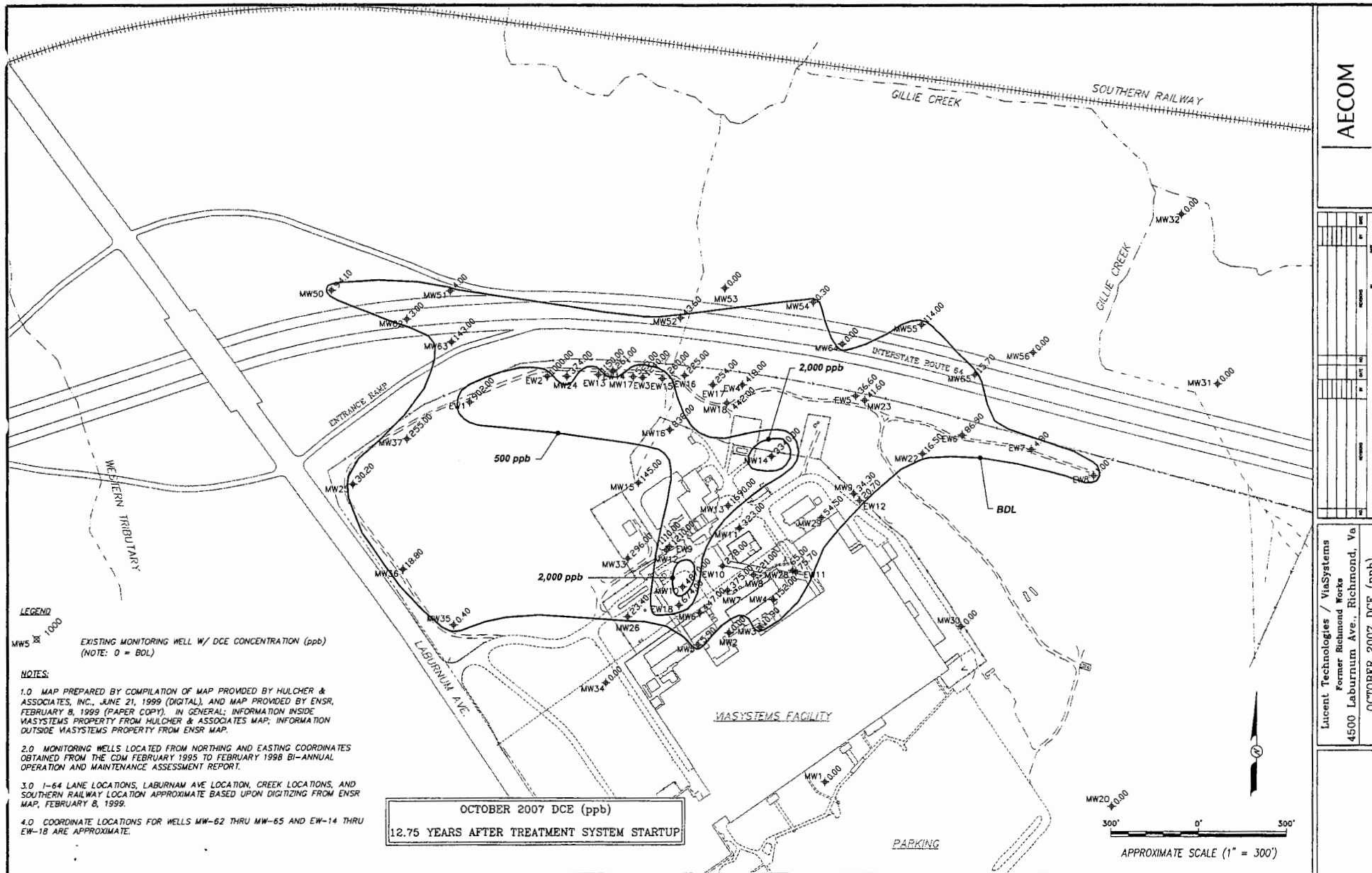
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Lucent Technologies / ViaSystems
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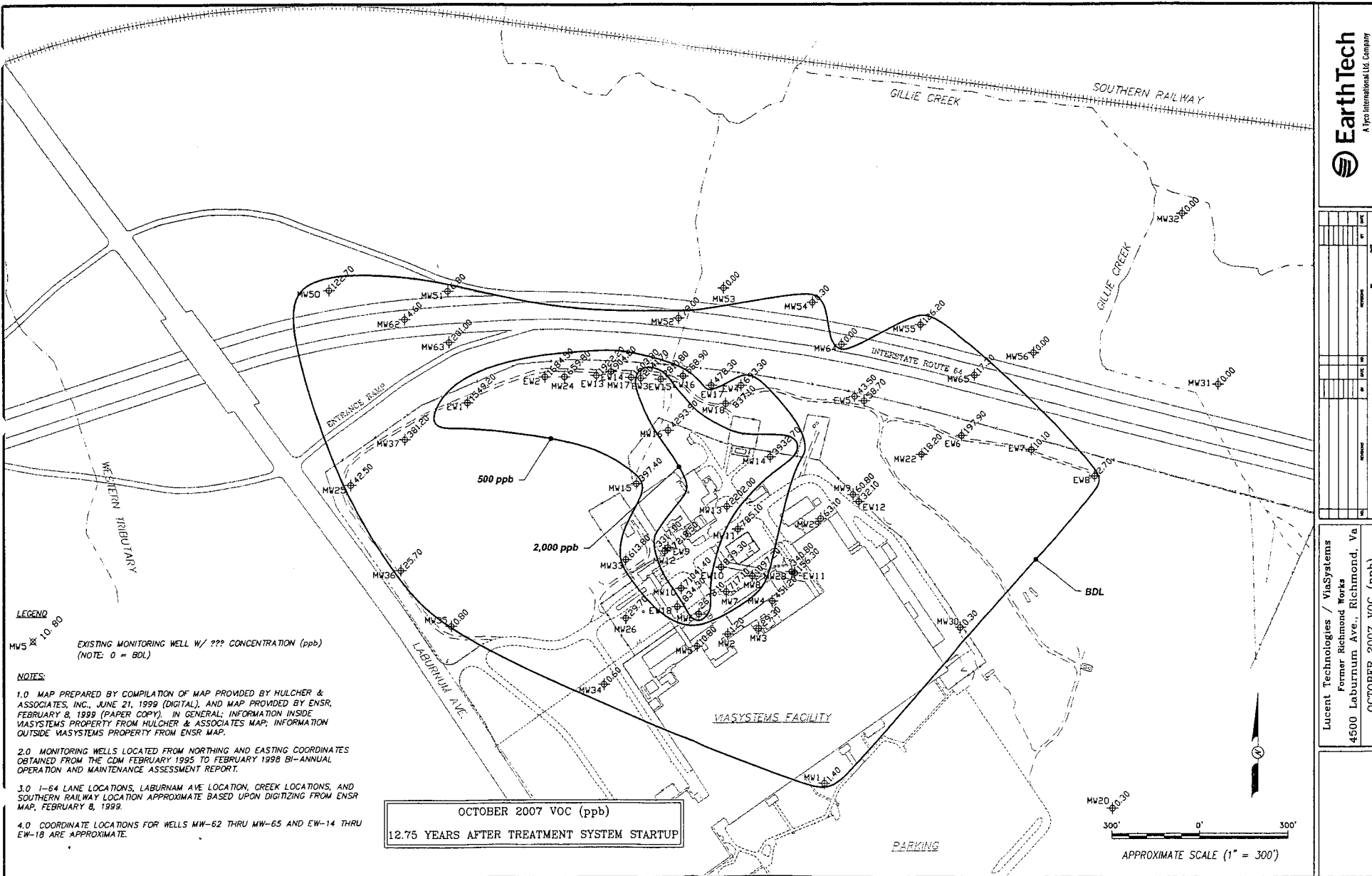
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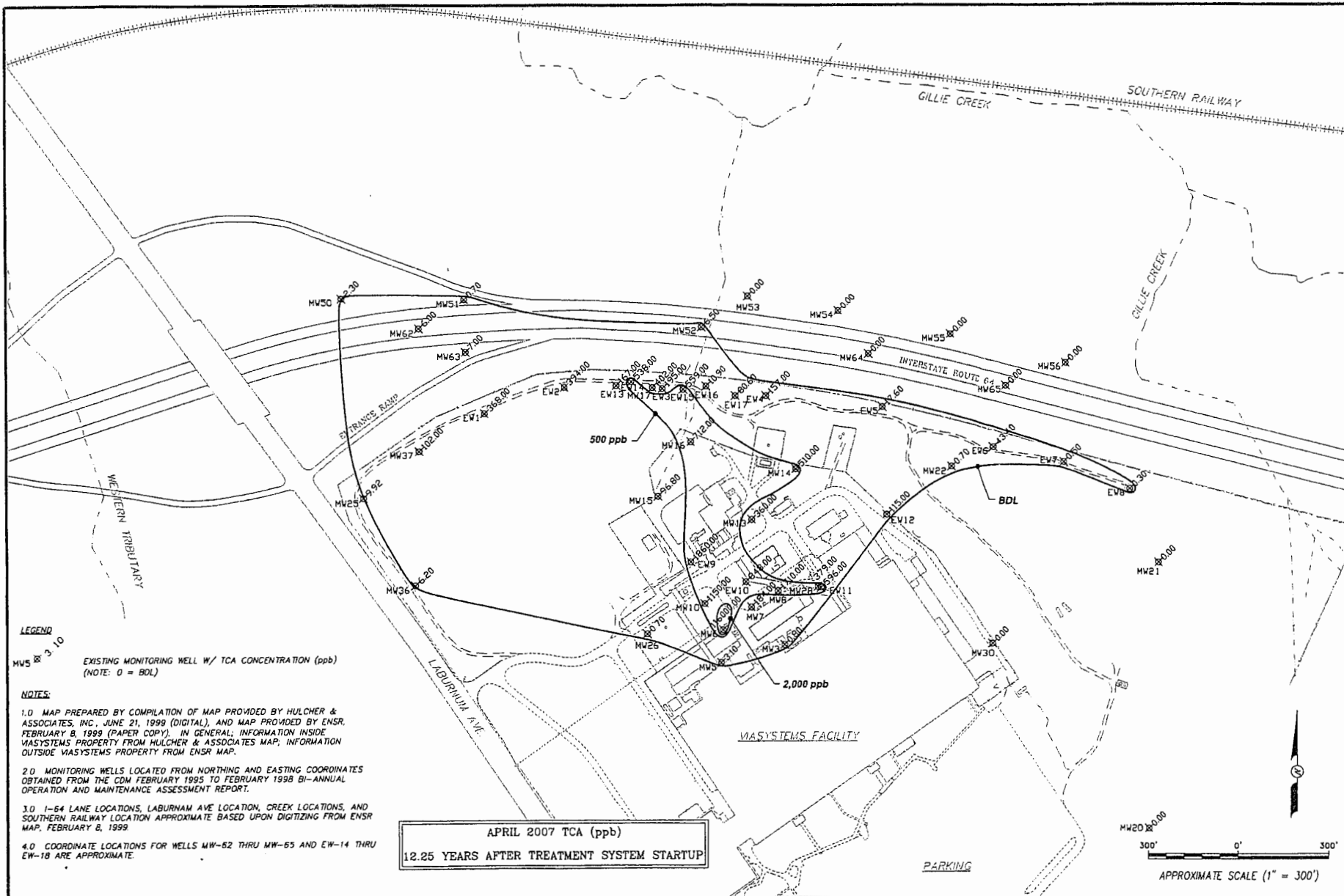
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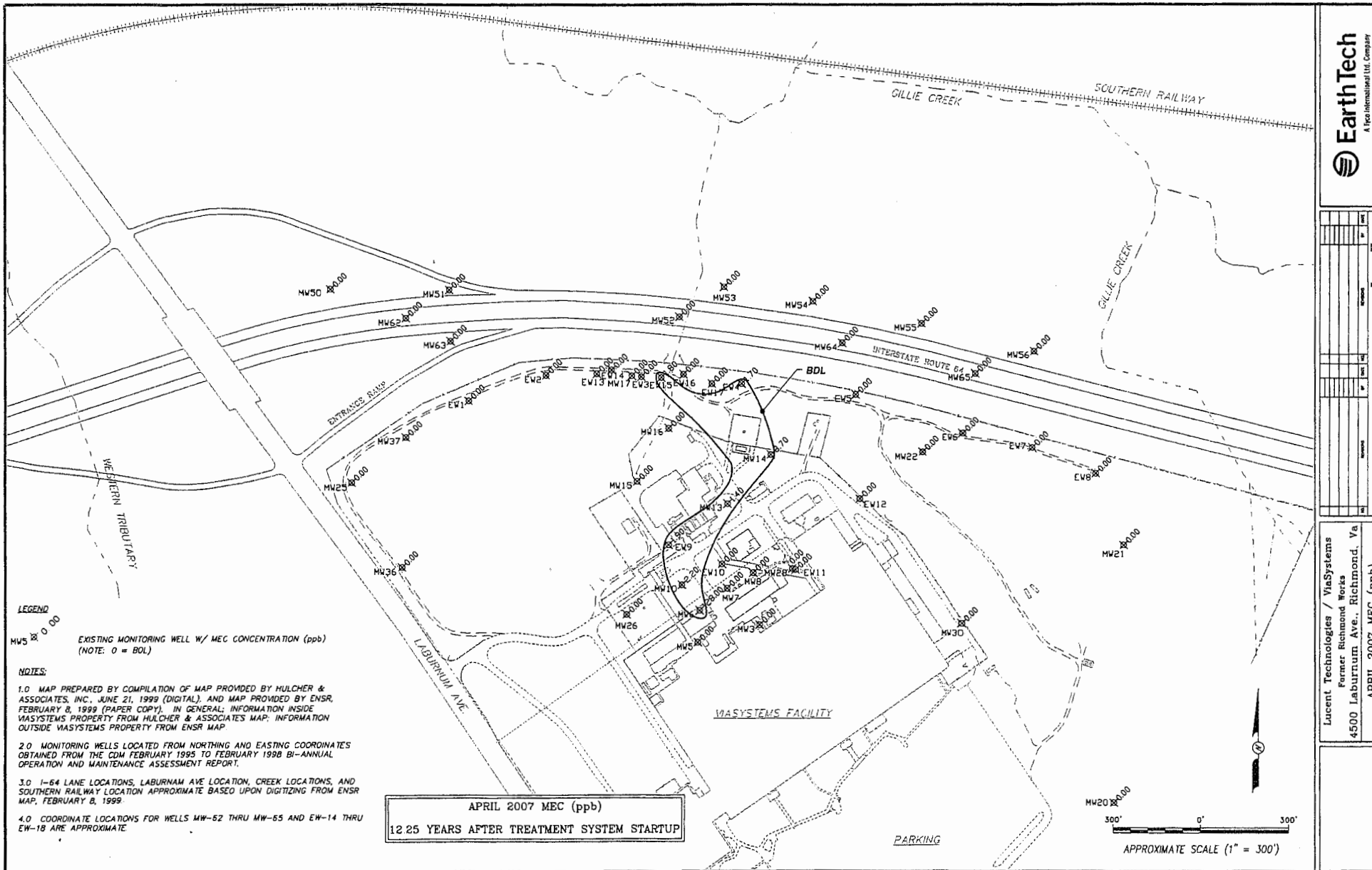
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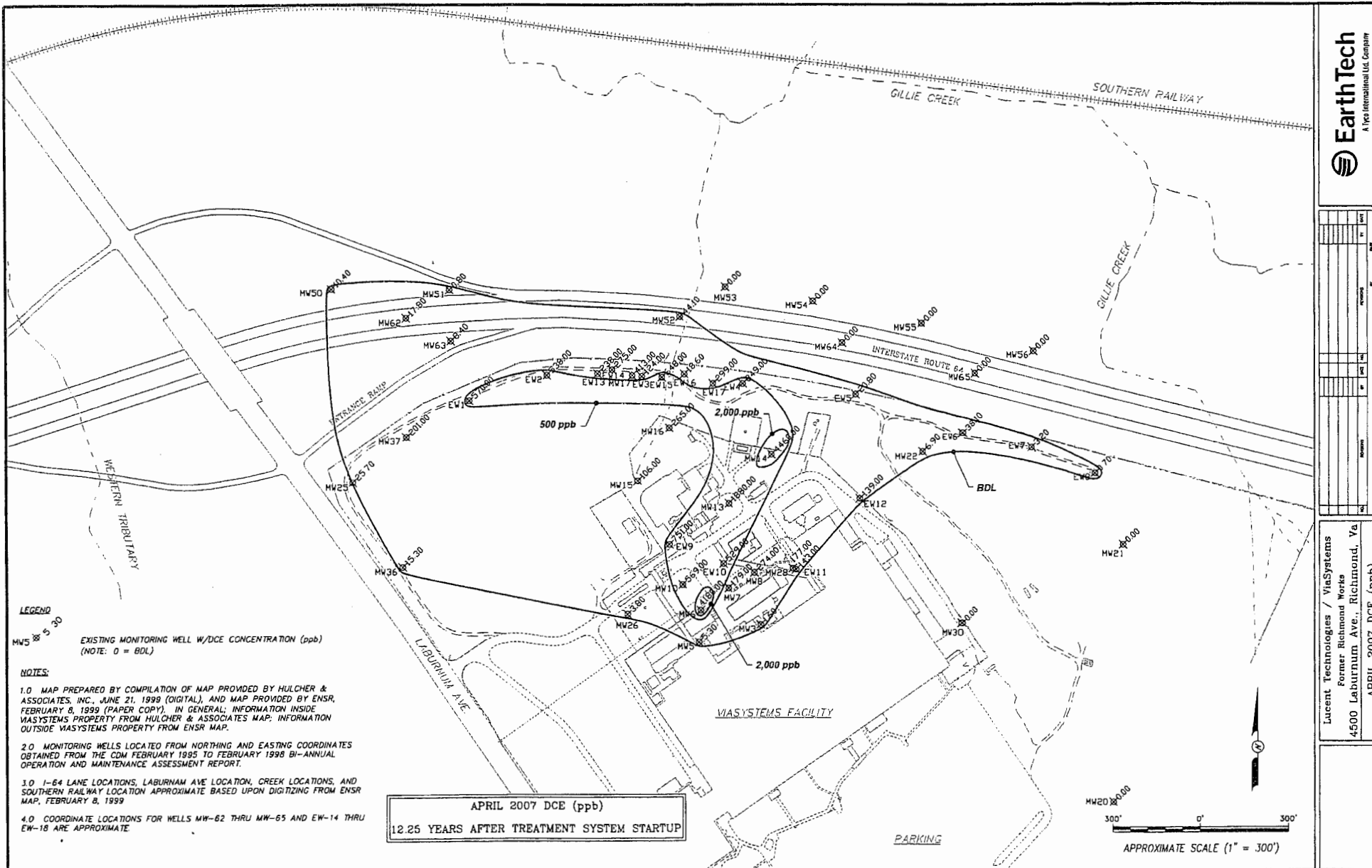




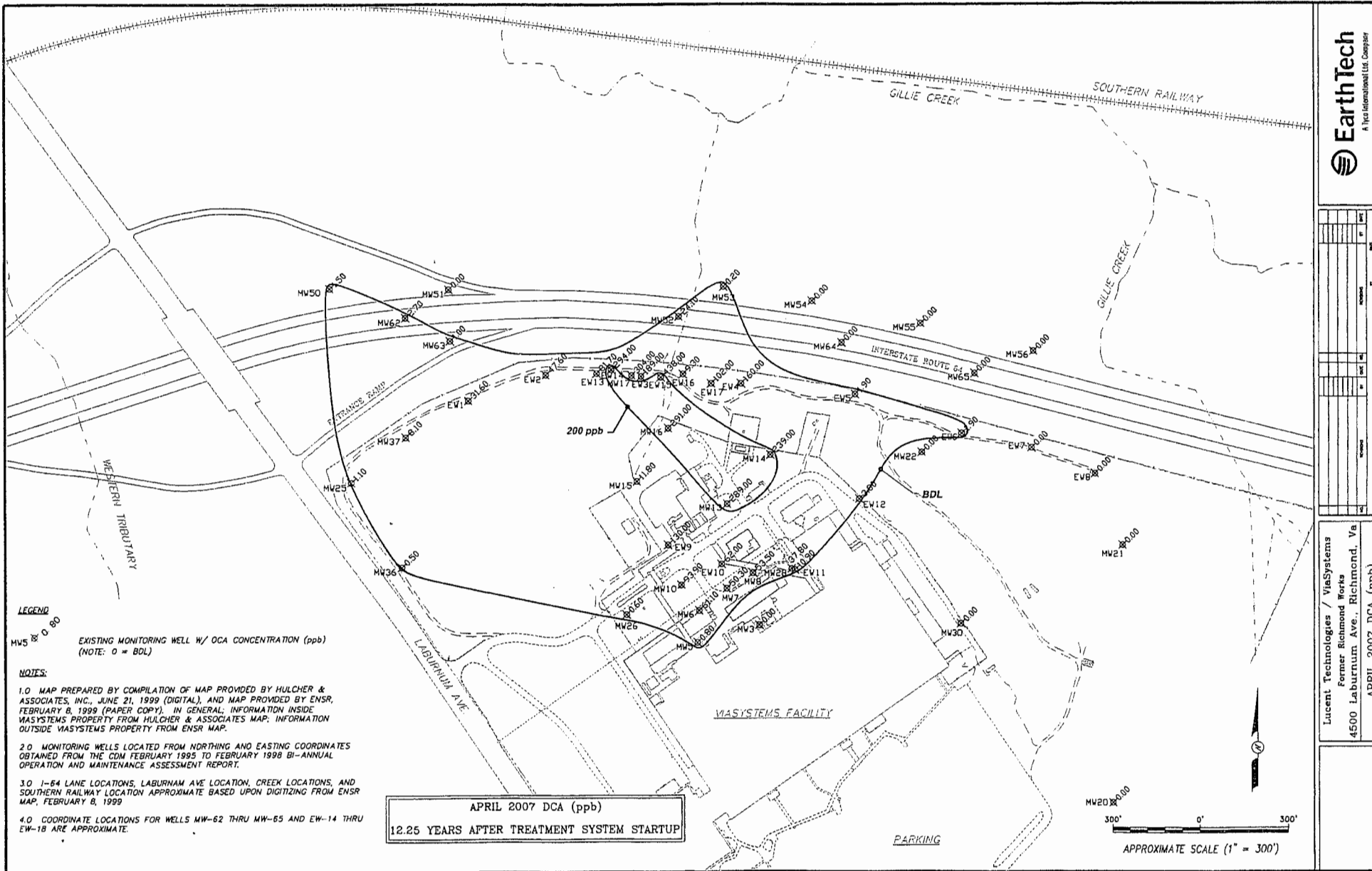
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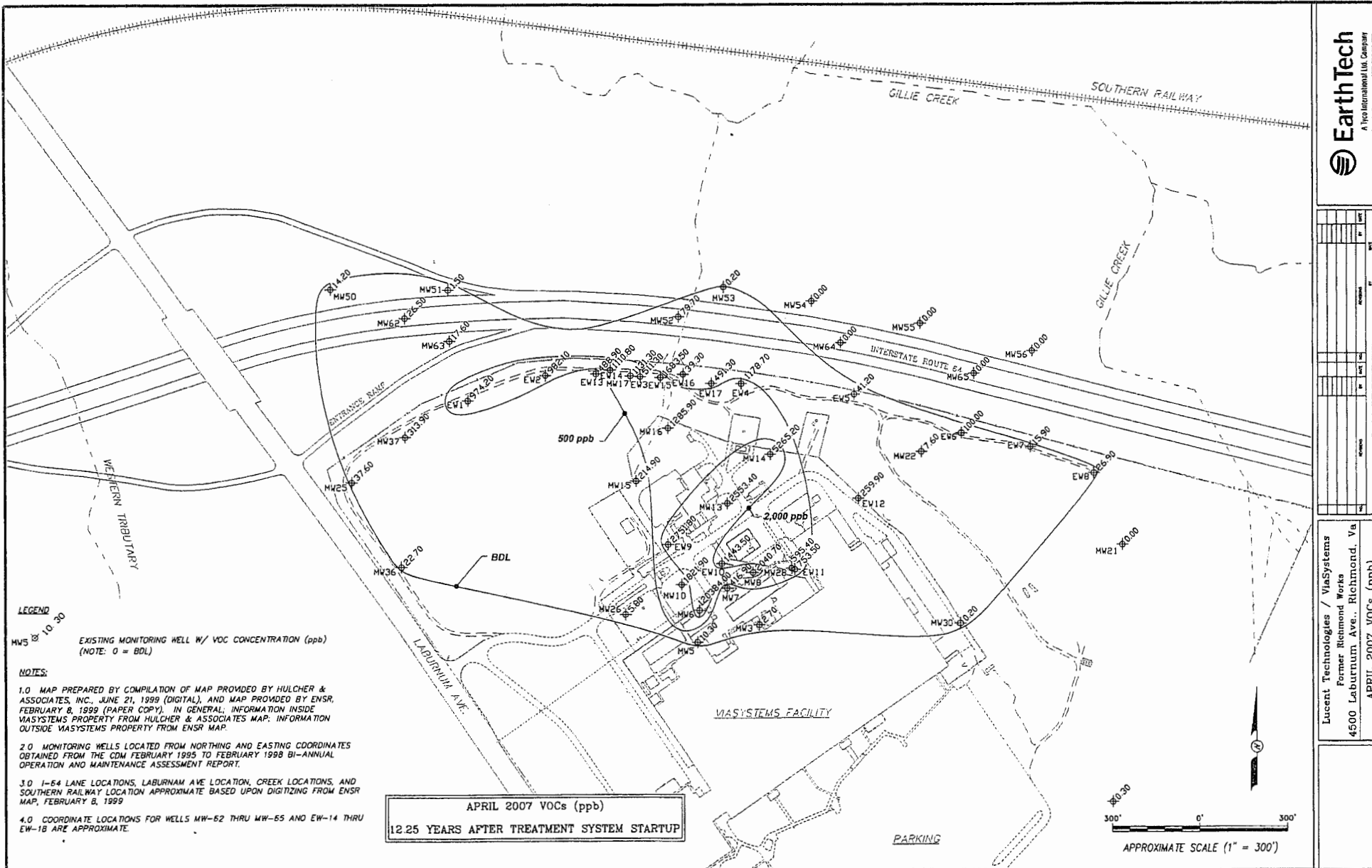
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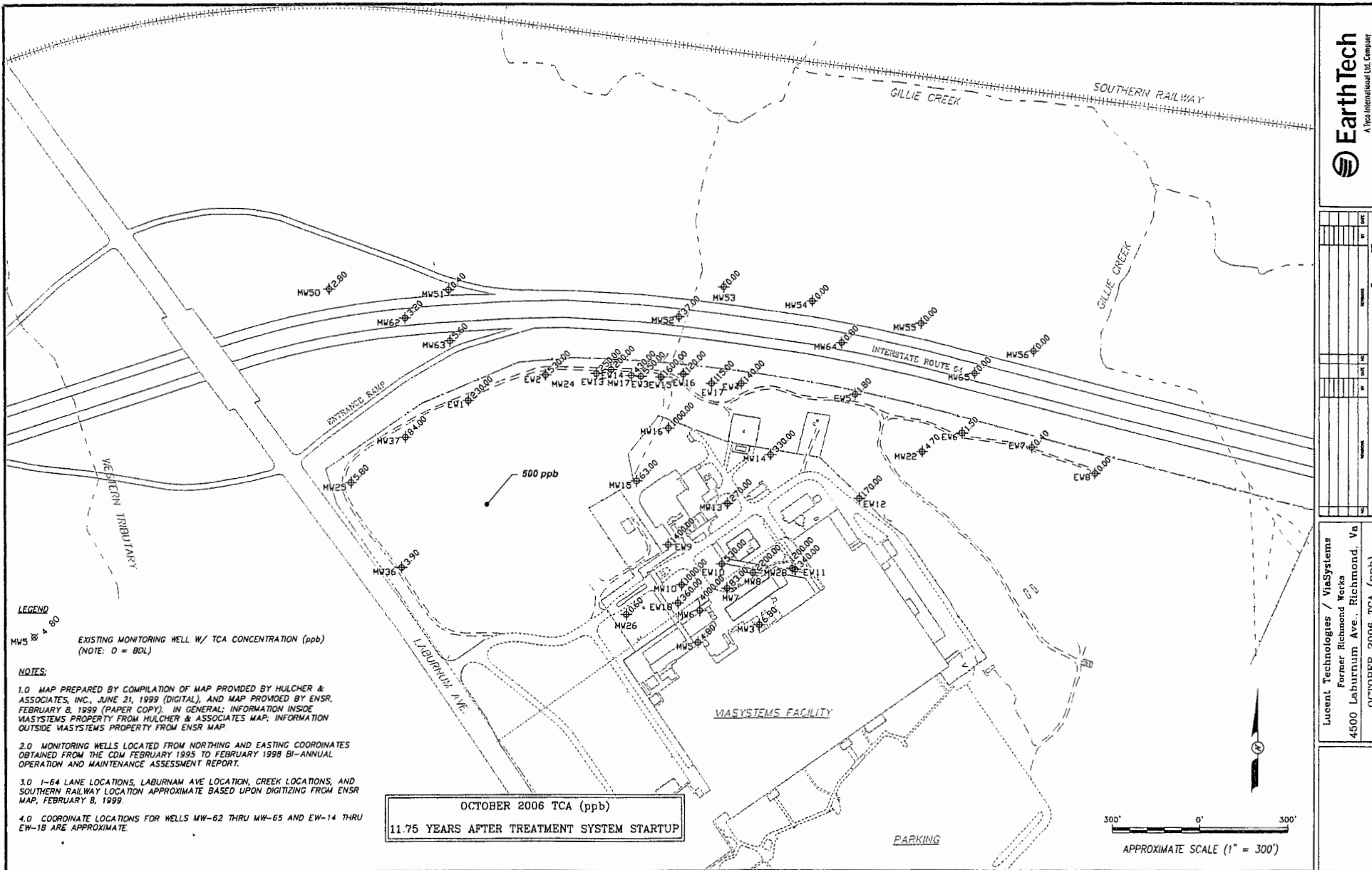
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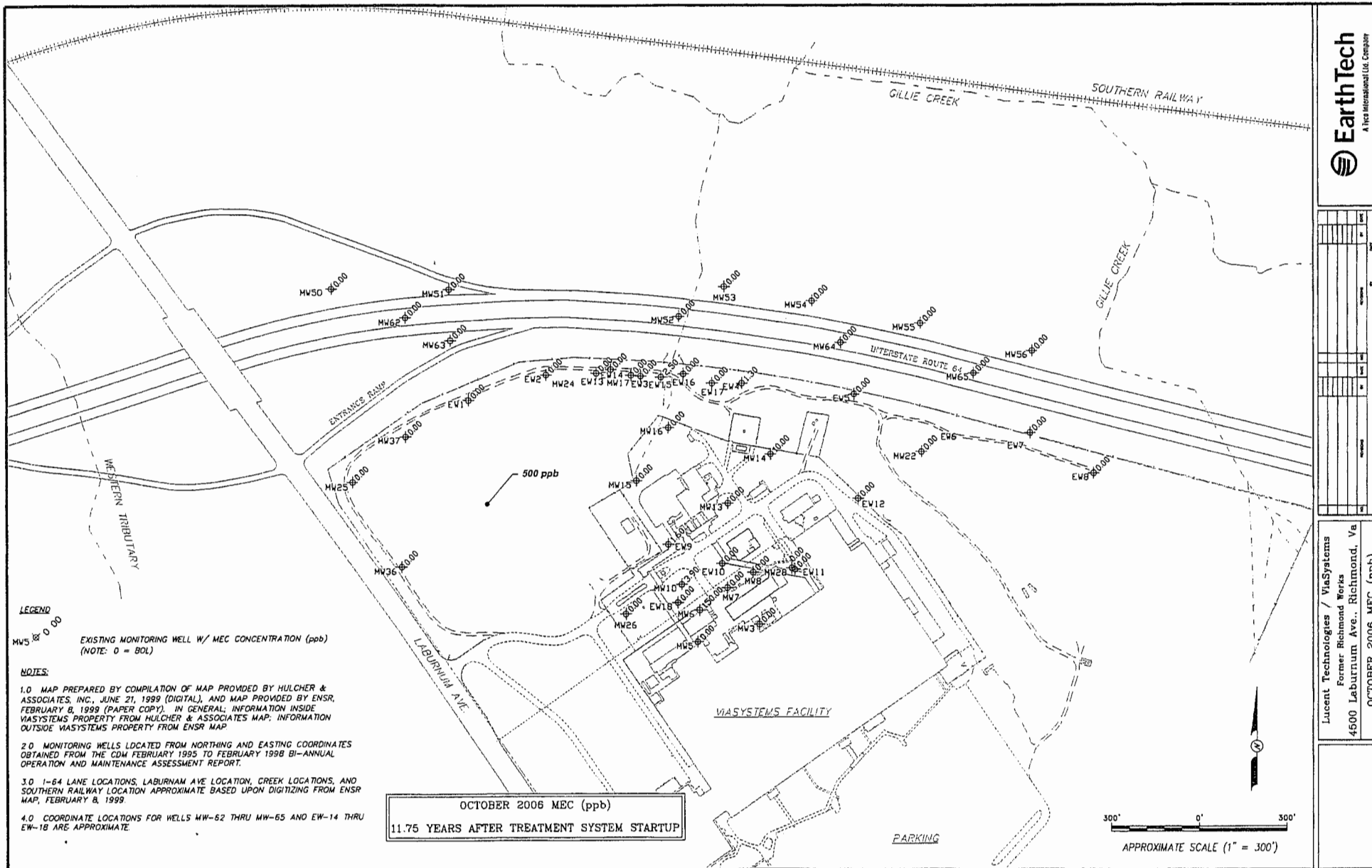
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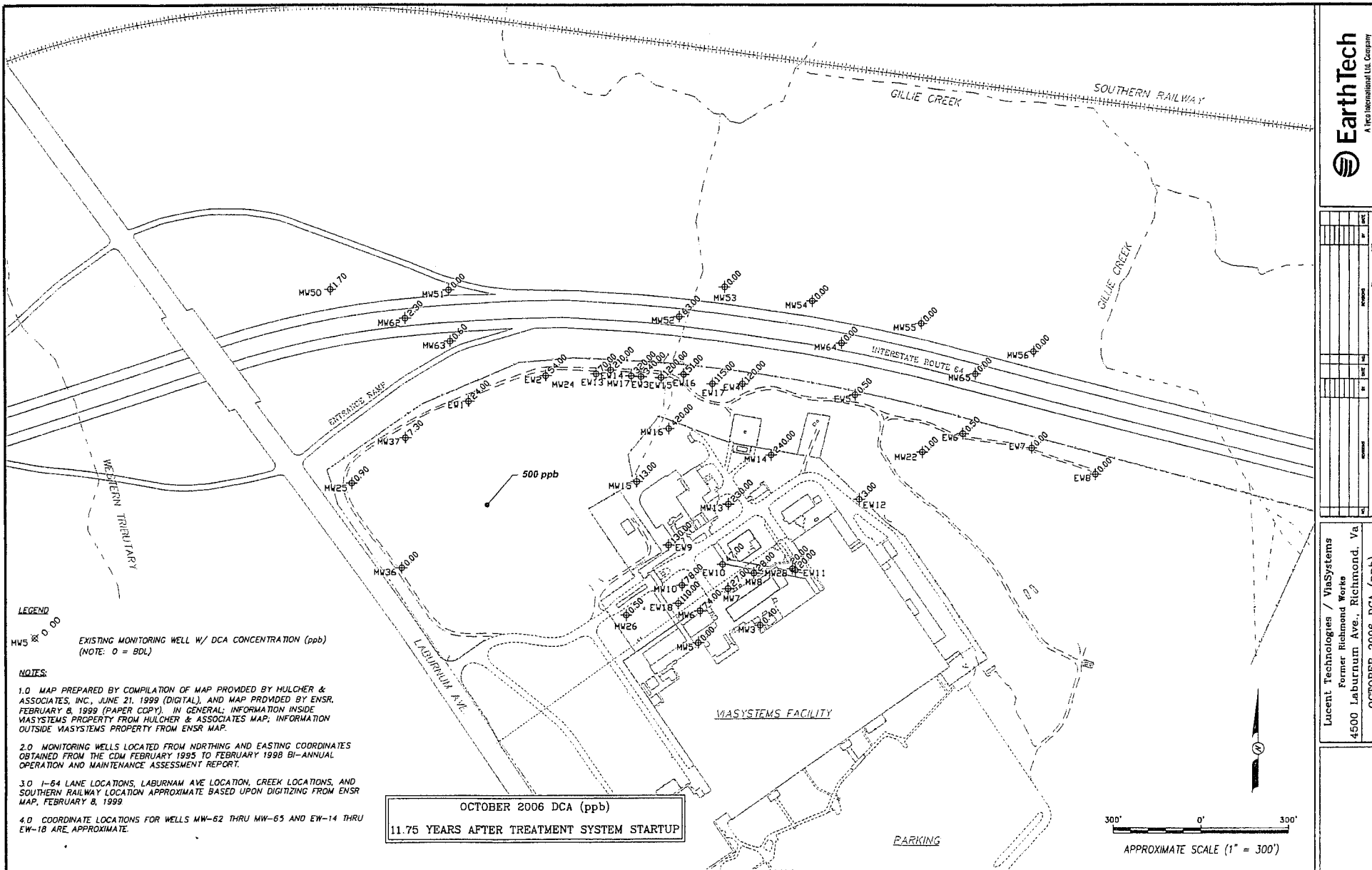
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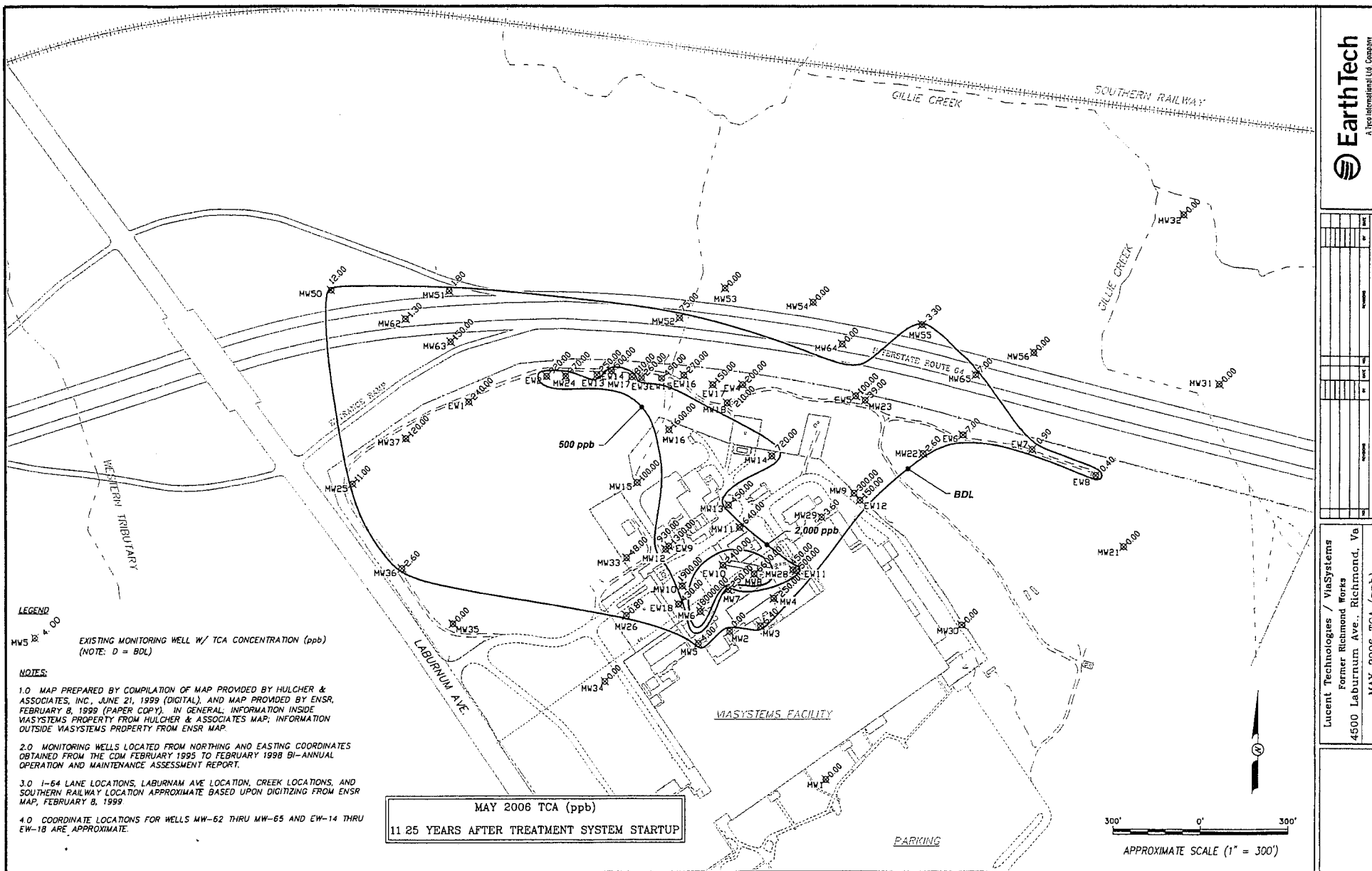
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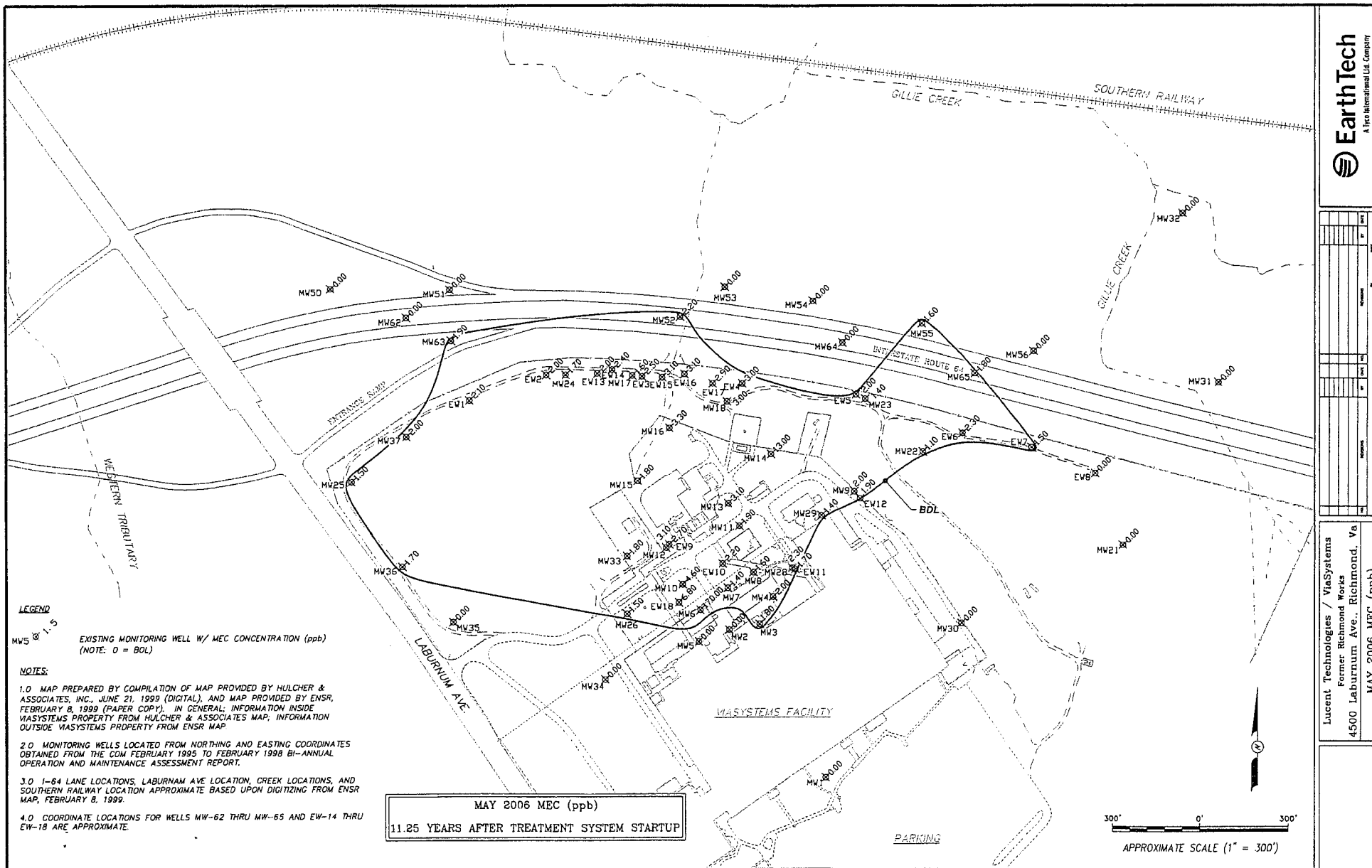


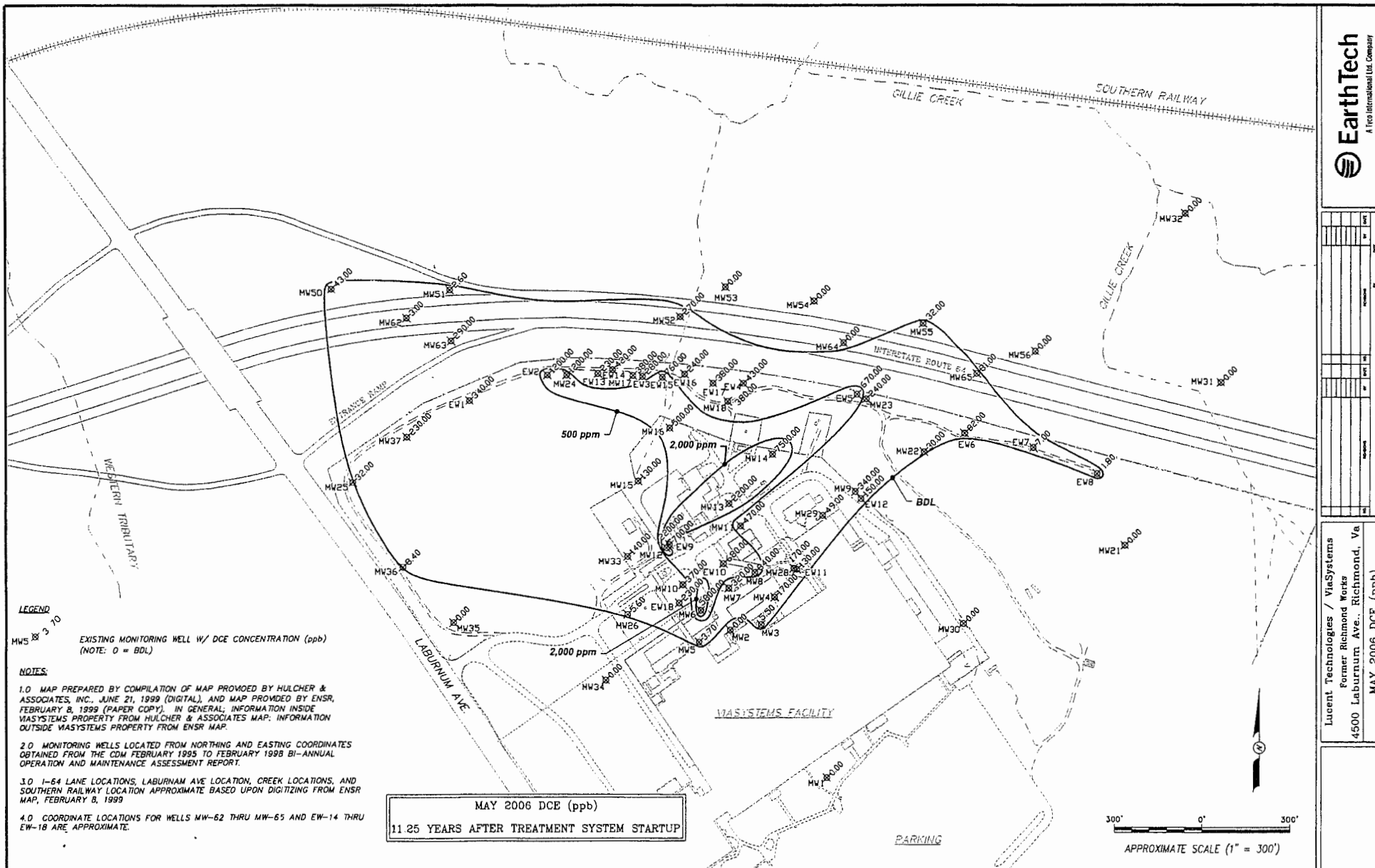
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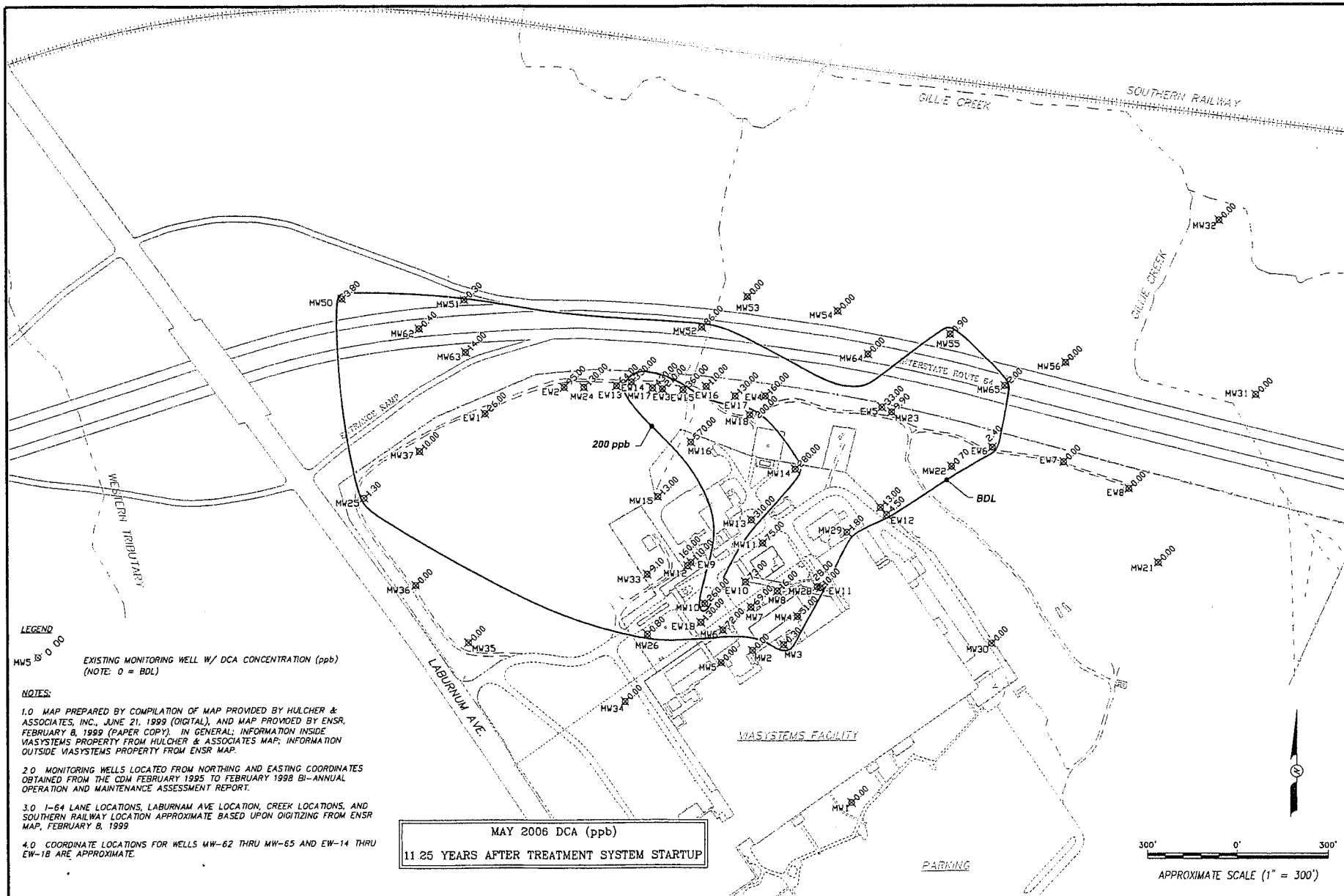


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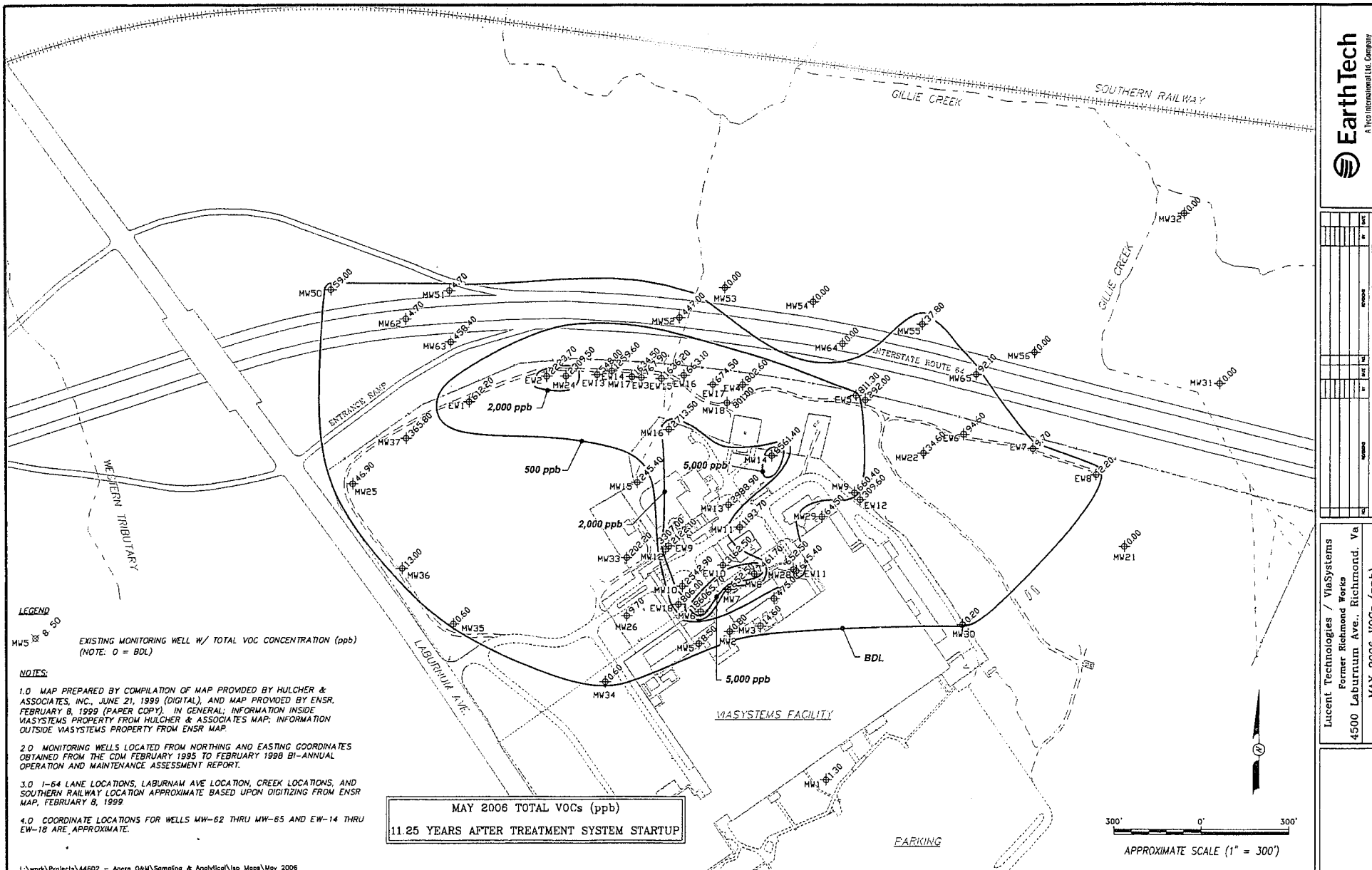


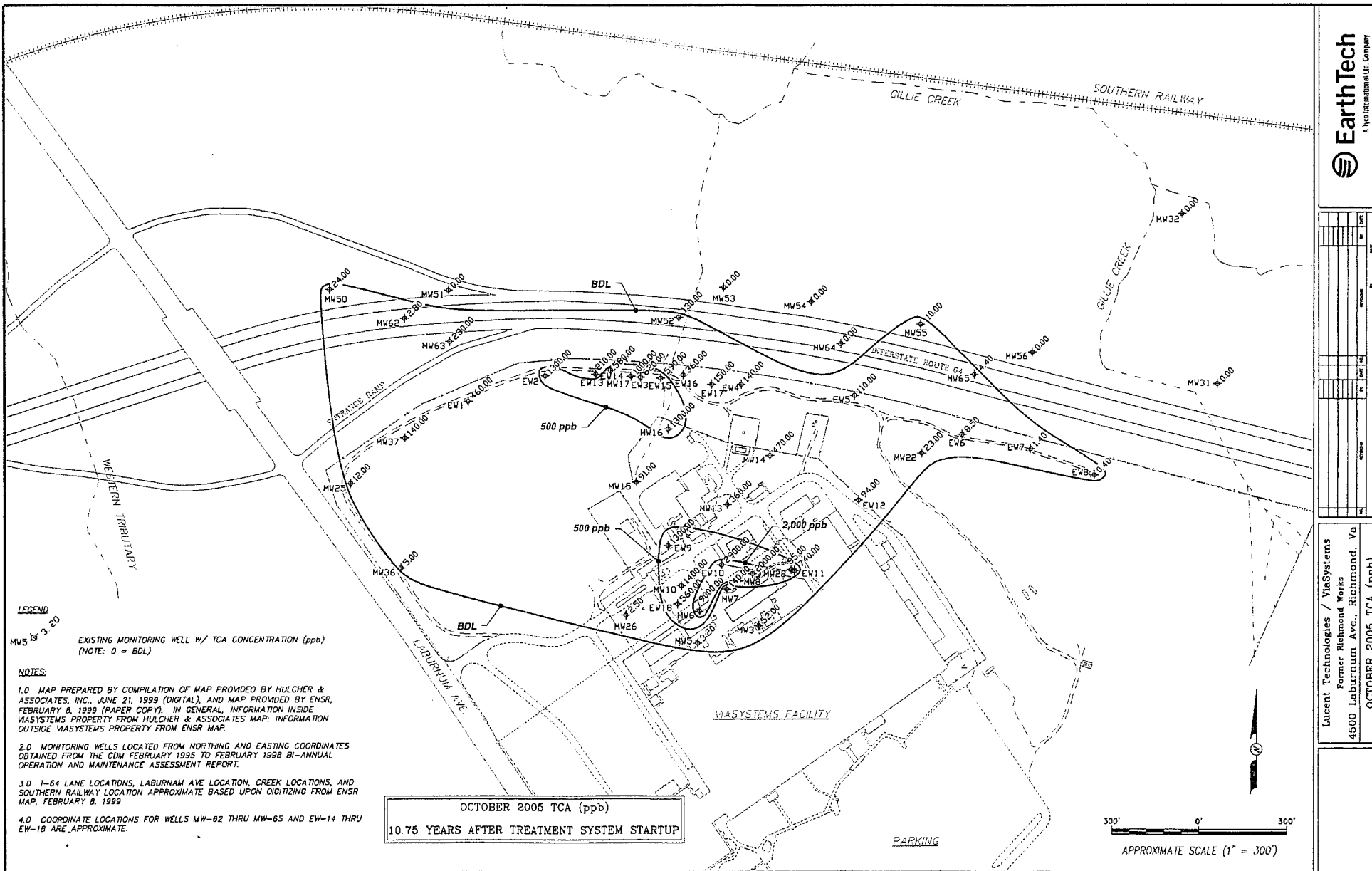




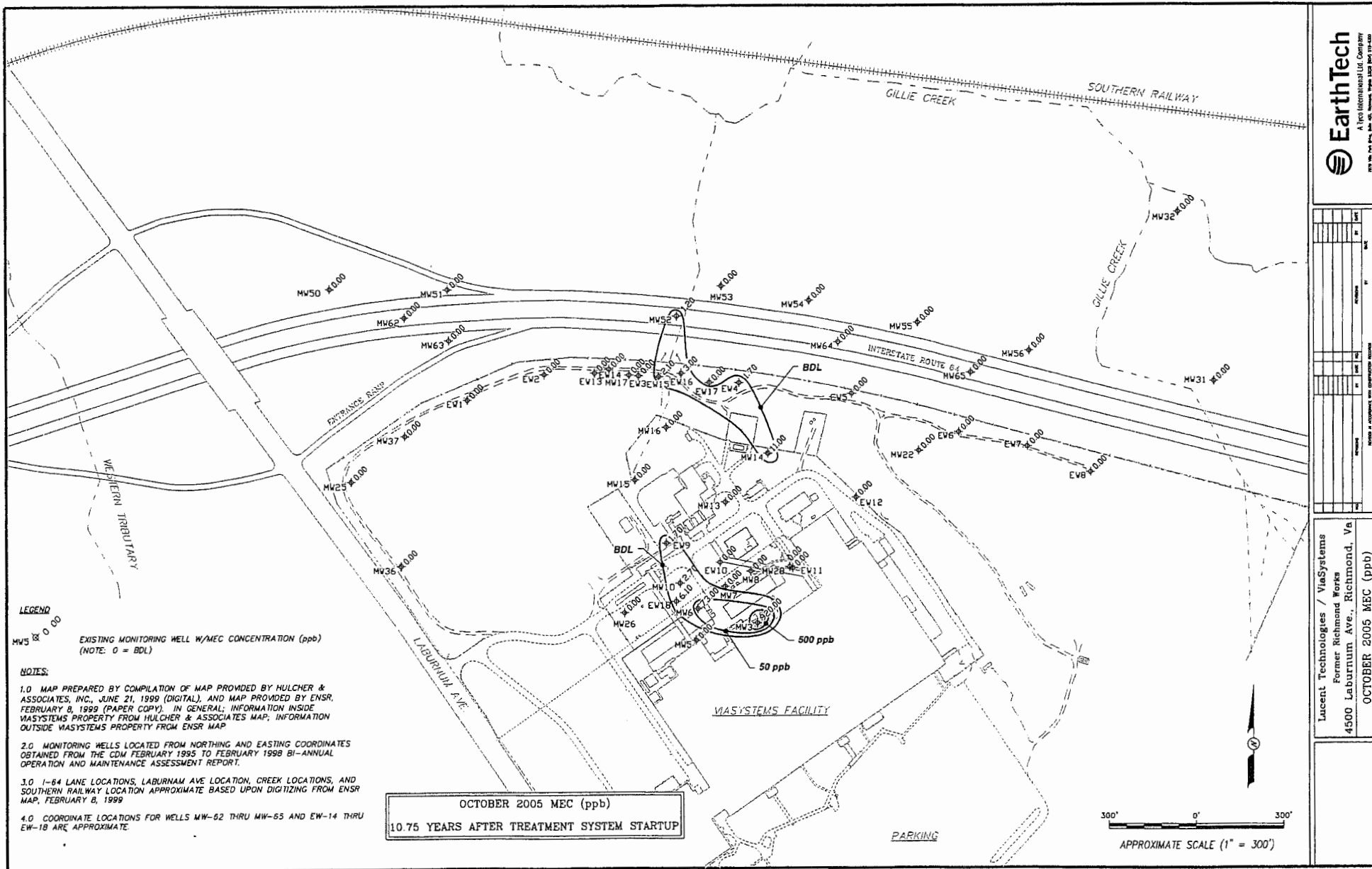


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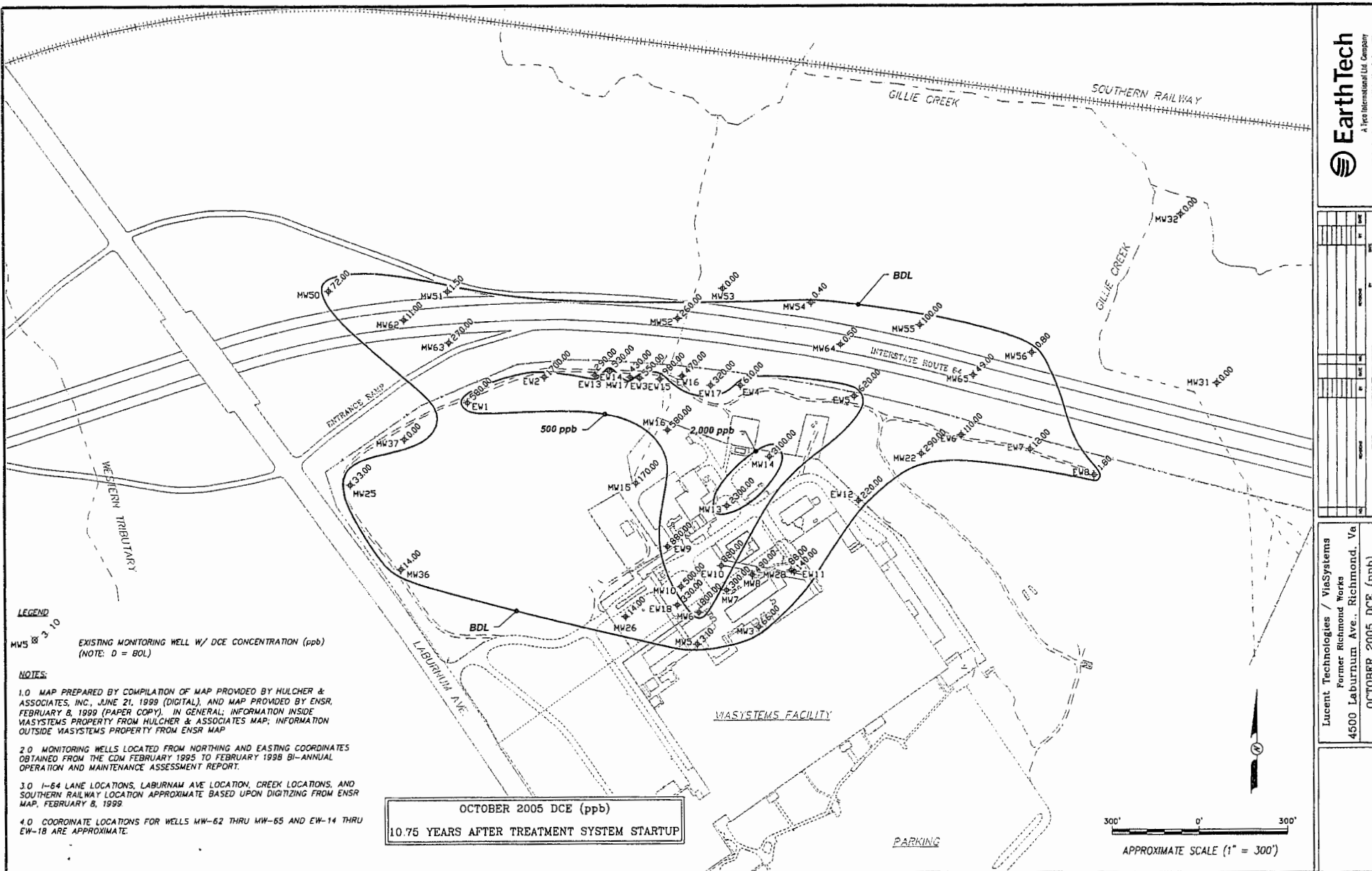


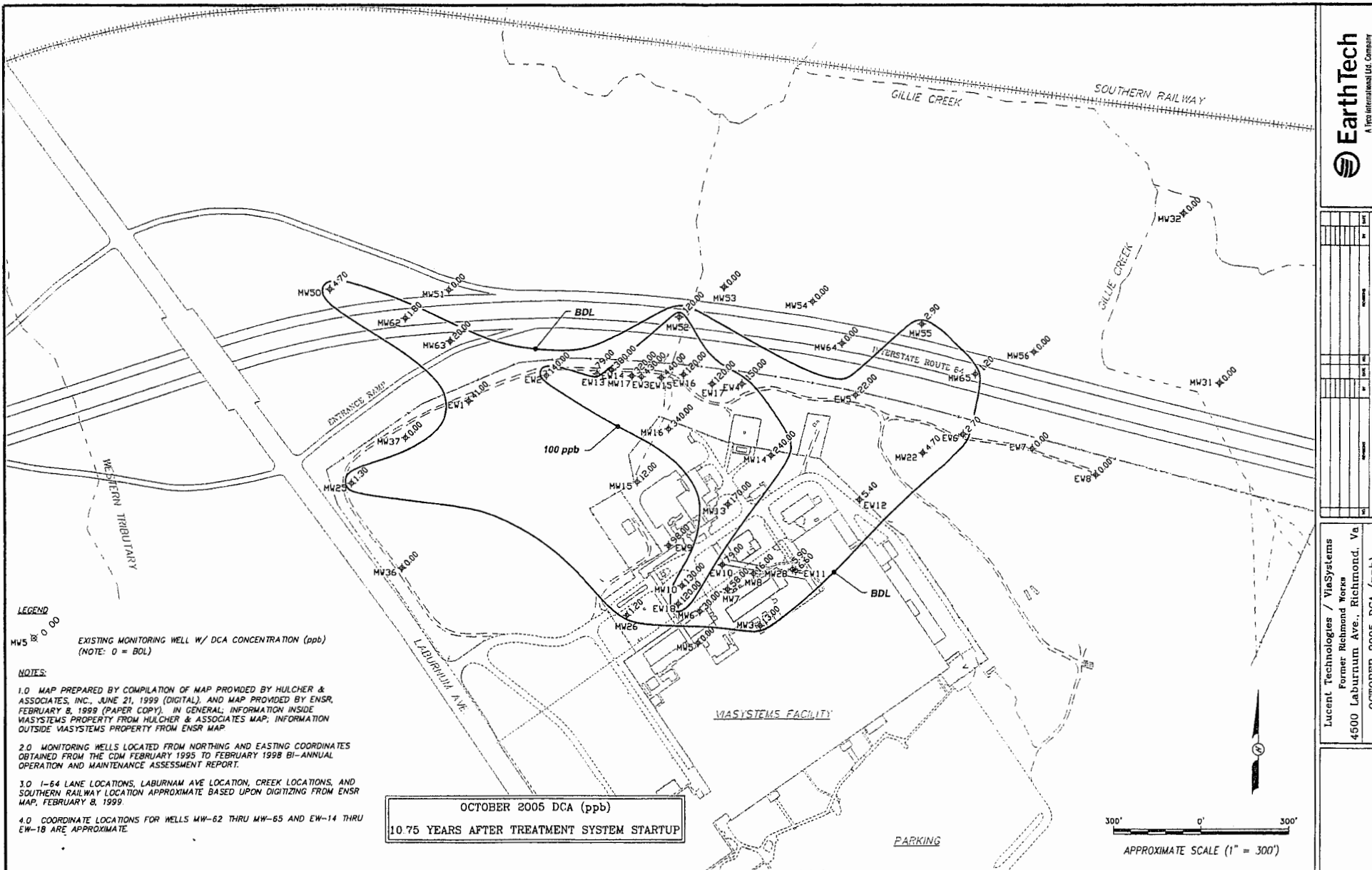


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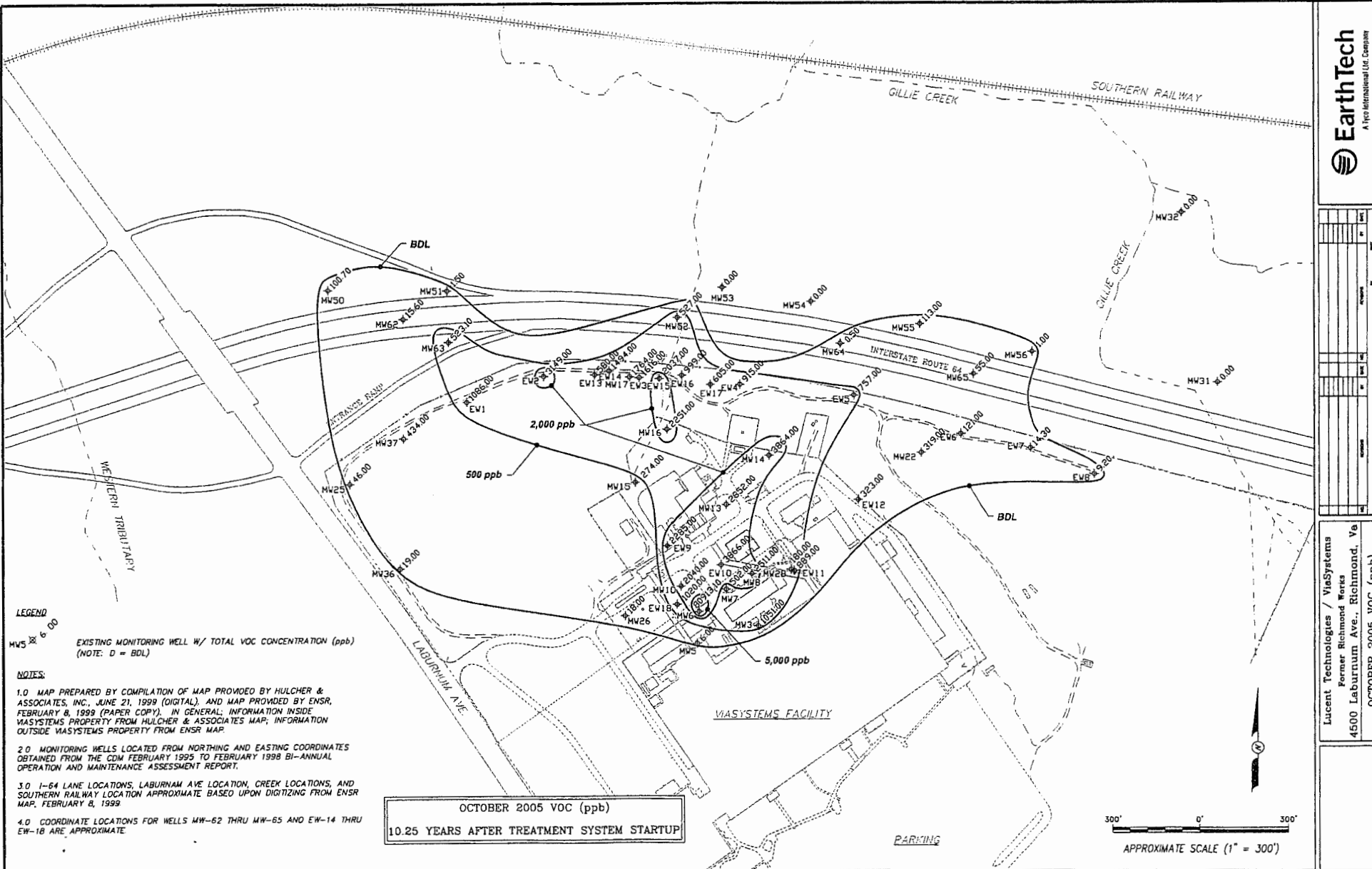


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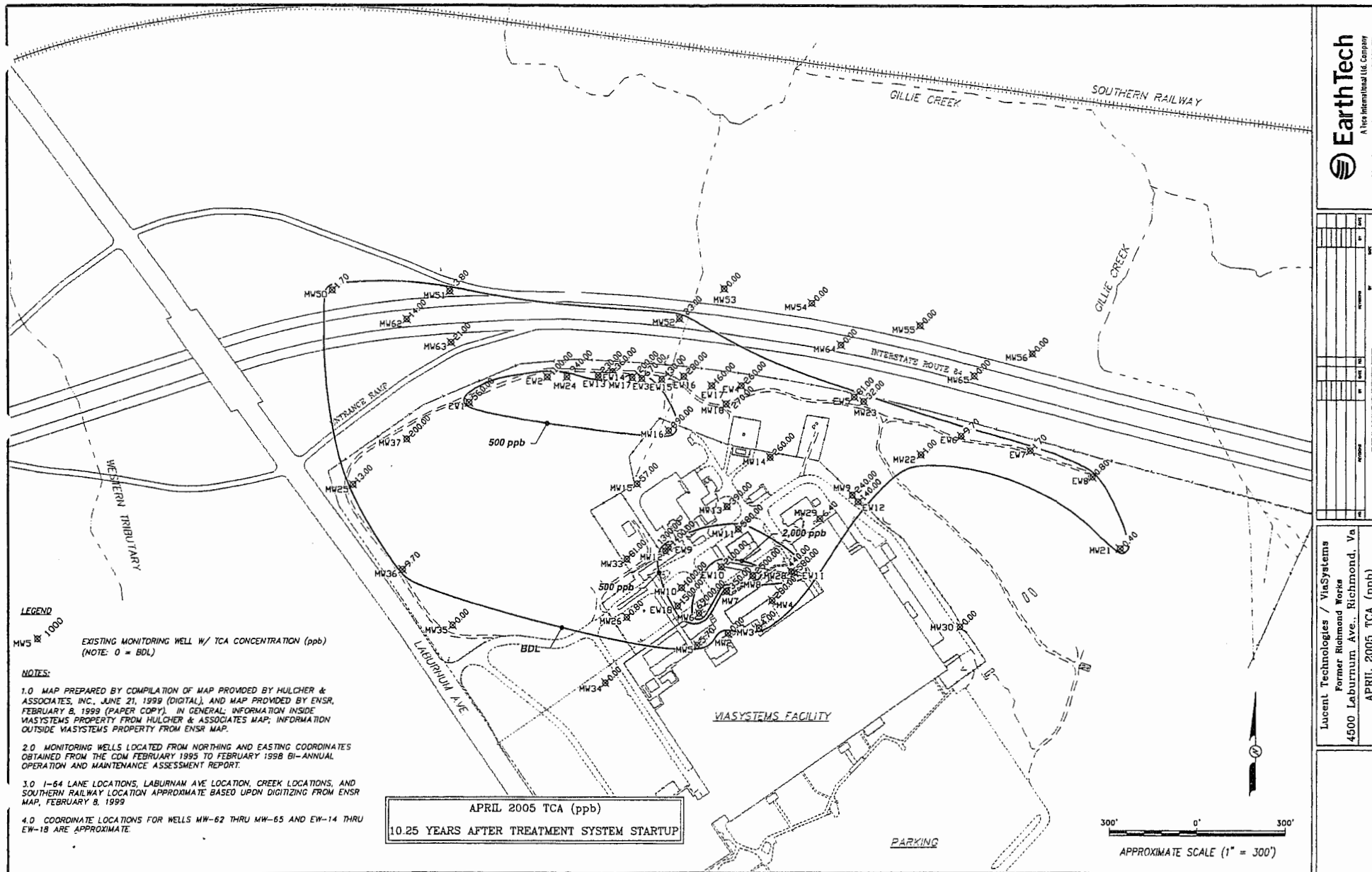




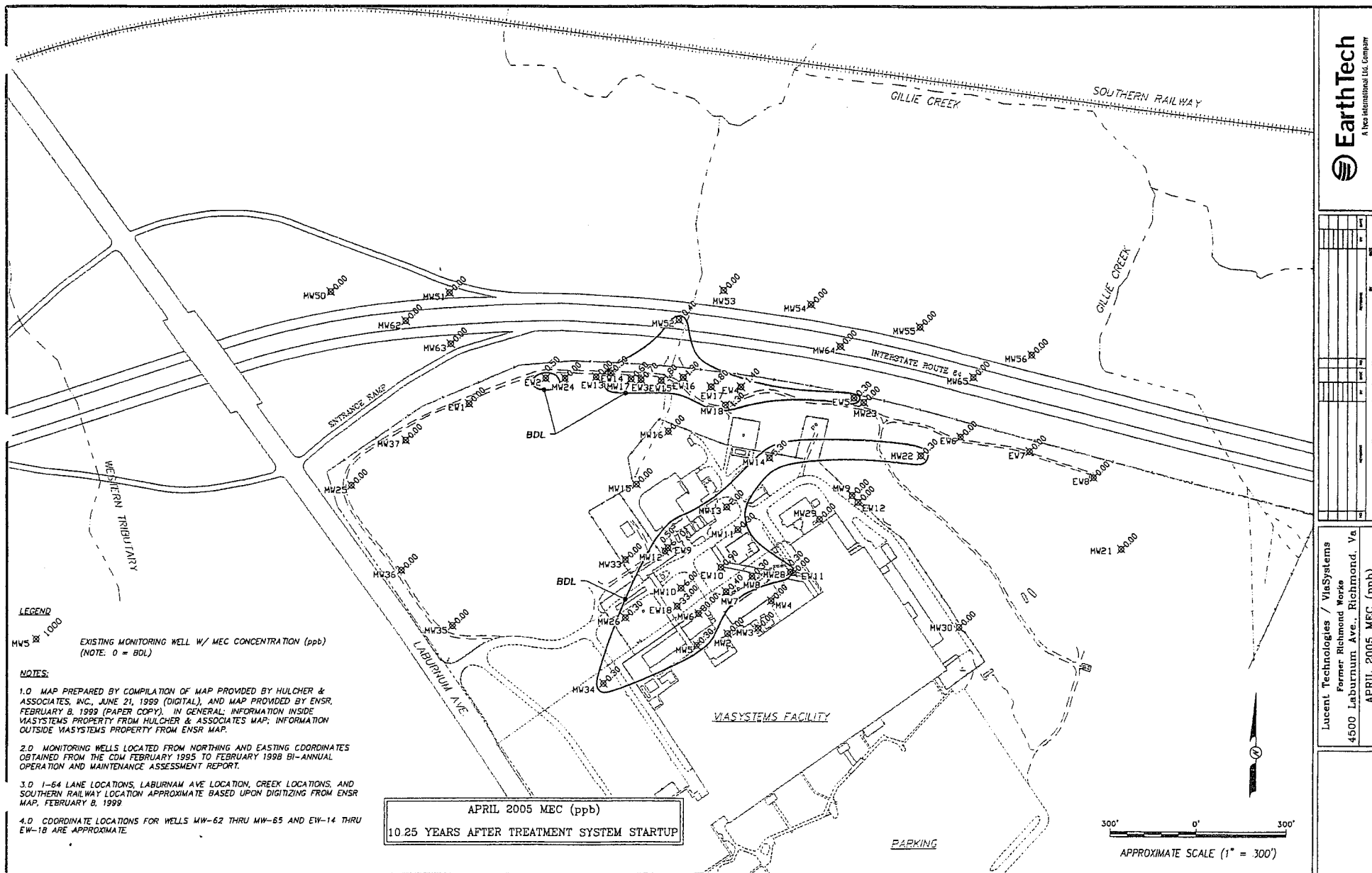
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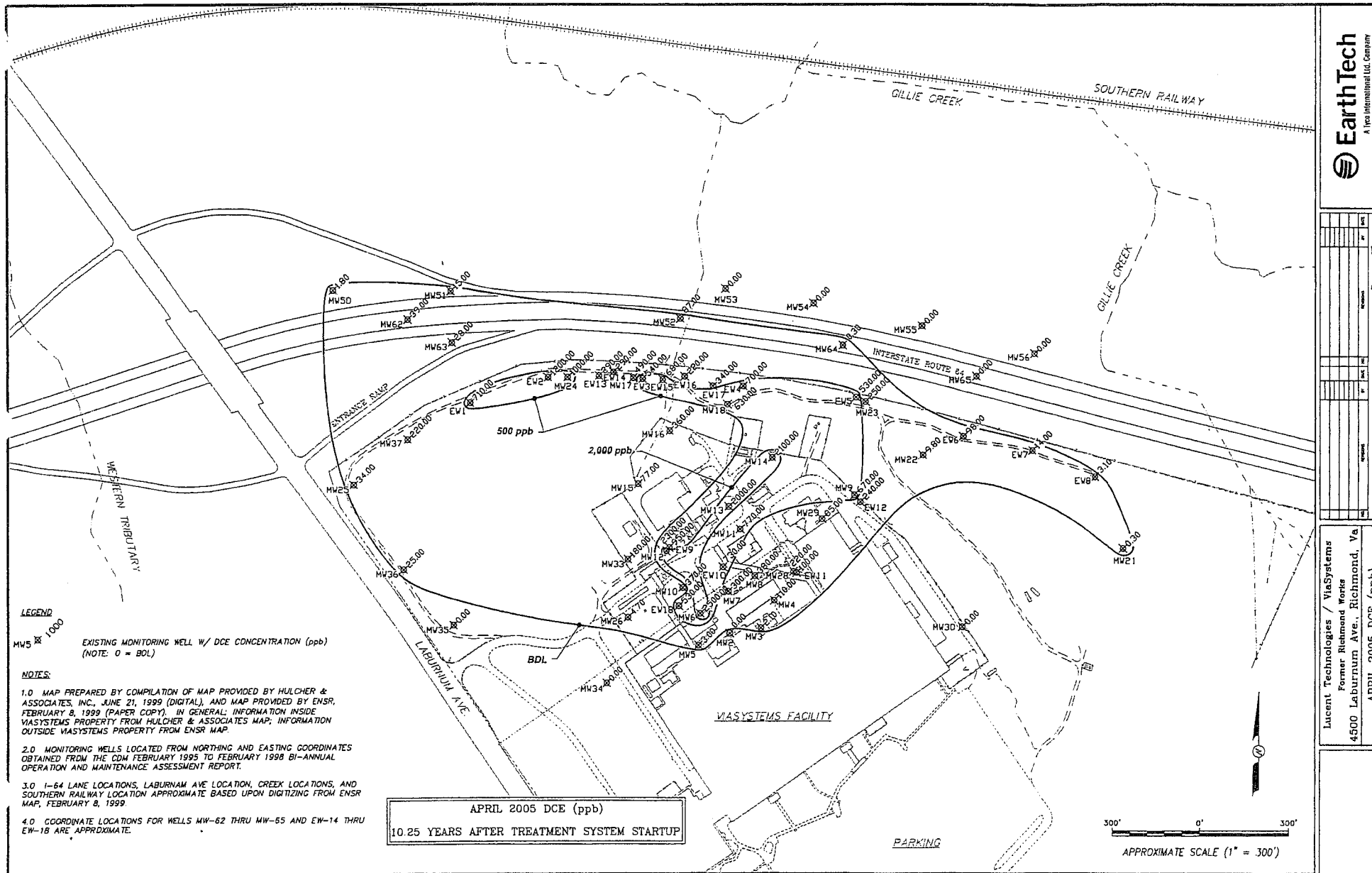
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